gttgtcaat 489

<210> 4122
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-E1

<400> 4122

tancctcctc aaggttaccc accacaacaa gggtatcctc cagctggagg ctacccacct 60

gccggatatc ctcctggtgc ttaccctgct gcgcccggtg gttatcctcc tgcacctgga 120

ggttaccctc ctgctggcta tcctgcacct ggagctcacc attcaggaca ttctggtggt 180

ggactcggan gcatgatagc aggtgcagct ggtgcagccg cagcagctta tggagctcac 240

catgttggtc acgcctctca caacccttac gggcatgctg tangacatgg anggtatggc 300

catgcccctg ctcatggctt tggccatggt ggtcatggta aattcaagca cggnaaagca 360

tggaggcaaa ttcaagcacg ggaaagcatt gaanagcncn gggaaaacat gggcatgttt 420

ggngggaggg ag 432

<210> 4123
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-E12

<400> 4123

acgcgtccgt ctttatctcc ttcactttct ctctctcgat accgtttcgc cgcagcttct 60

cttcttctcc cttcatctca aaccattttc atccgatctc aatcctccaa tcgtcggtct 120

aactctaacc atctcggagt aatctacgag attgatatcg ctgcggatcc tcttgtcaat 180

aagttggaag atgctgtcca ccggattatg gtacgccgat ccgcacctga ttggctcnct 240

tttgtccccg gtgcttcntt ttgggttcca cctcctagat cccagtctca tgggatcgct 300

aagctcgttg agaagctggn caatccgatc tctgatgaan aatctanttc antctcatcg 360

gttcgaggat gggcttgctc tgattactca tcaannngngg taaaagcctc aatcaagttg 420

agacgg 426

<210> 4124
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-E5

<400> 4124

tttttactgt tgatttatct gaatatgcca cgctctttct tccanatgtt tantctctct 60

tcctttcttc aacacaagcg tctggactaa ggaaagccaa caacaaaatc tggtttcaag 120

acggttggca ggagtttgtc aaccgtttct ccattcggan tggtttcaga nacaaagtta 180

cagtctacat tttcaattta tcctccacac tctgagatca accagcattc tagtagtgaa 240

gctcttatgc anatggattc cgcacagtat cagttcanca aacgtgctcg attgtttgaa 300

gatcctgaac tcaaagatgc taangtcatt tatccatcga acccnnaatc tactgaacca 360

ntgaataaan gttacggctg ttctacaagc catccaaagc tttttcan 408

<210> 4125
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-B4

<400> 4125

acgcgtccga ttctgaattc aagatgtatg ttacaaggca tctctccgaa taccagagaa 60

actcgtcgga cttgacacga tcgttgccgg aaggtccaaa ctccggcgta cttgtgattc 120

aagacgaaga gtcaaaaccg acttgttgct ttggaaattg ctacgatggt gaactcaaag 180

gcttaccgtt cccacaagaa cgcaaagctg actgtgactt acagaaccgg aactggtaat 240

gacangcgca gttaccatga ccaggttctg ttcantccgg ttcttgatca gccttattan 300

tcgangccgt tattatgtcn gtanacgacg tgggaagcaa tcaaggagga gcttcnggcg 360

agtgcaanag gaagaagana gagnccccctg cngnntttgc nncagnnatg ttcctgaagt 420

taagccac 428

<210> 4126
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-H1

<400> 4126

gtagcccgtc canaaattca agggtcnacc cacgcgtccg nataatcaaa attatgctgt 60

tgacccgttg gtcttgaaaa tttcactgat tgttggaaga acccctgaag acttgattat 120

ccattgcatt aaccgggcaa gcataaccag agccaagata ttattctacc ttgtggagtc 180

cagtcccttg catctgttag tctttggaca ctttttcttt agtatgctaa gtaagaaaca 240

ggatgactct gctcttacag atgatcaagt ttatcatgct tctgcctgct gtgctatcgt 300

atctgacatc agttattgca aaactcgaga agccttgtaa taaatgtttg gatataactt 360

cagtttattc aaatatacca ataaatggtt ttccttcagt ggccgangtt tttggcnagg 420

tgcatccttg aagaagaagc atgaagagaa tcctccggtt aacgactgag gat 473

<210> 4127
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-H4

<400> 4127

aacttnccgc agccgtccan aattcaaggg tcgacccacg cgtccgtcat ctctgaaaat 60

tgctttattt ggttgaattc attggattgt tgatcgagat tggtttactg attgatcgaa 120

agtatggagg aagatcgtgg ggaagcgatc gttttagata tttcgccgga gattaataat 180

actccggcgg taatgatgag agttccacgg aggattcgtg agaggctttt gtctgactgt 240

agtaataaga agacagtatc ttctgttcaa gatattgaag acaagcttct tcatgcccat 300

ctacgaagac agcaatttta tcataacgtt tcgagaaagg ctcgtgctaa acctanaagt 360

ccttcacgat catctgatga agaacttggc caacgaatcg aagcaagact tctggctgct 420

gaacaaaaaa aggttggaga ttcntgccaa aggcacagat gccgttttgg cgaagttang 480

atg 483

<210> 4128
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-H6

<400> 4128

acncgtccgg ttgtgataaa gggtttgttg aagttctggc ctatcacgaa tagtcagaag 60

gaagtgatgt ttctcgggga ggtcgaagaa attgtagaag caatgagtgt gatggagttt 120

caaaagatca tggtcccttt gttcttgcgg attgcttgtt gtgtcaccag ttcccacttt 180

caggtttctg aaagagcttt attcttgtgg aacaacgatc aaattgtaaa cttgattgga 240

cataaccggc aagccatcct accaatcatg ttcactgctt tagaaaagaa tgctcagaac 300

cactggaacc aatccgtgct aaacttaacc ttaaacgtac gaaaaatgtc tctgcgaaat 360

ggacnaggct cctgttcatg tcntgccacn cccgctttaa ngaggacgaa ananagcaat 420

gttctgctgc gggaaaagan 440

<210> 4129
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-055-Q1-E1-H8

<400> 4129

actaacttat tcacttttcc ggcactgatt ctgctcggga aaaacaactc cggcacaaaa 60

tgcagctttt tccagtcatg ttagccacac tctgcattgt cctgcagctt ctcattggct 120

cgtcagcttt ggctacgaca aatcgccacg tgtcaaactc tcattggctt cccgcagtag 180

ctacatggta cggaagcccc aacggtgacg gcagcgacgg aggagcgtgt ggttacggta 240

cgttggtgga tgtgaagccg ttacatgcga gggttggagc ggtgaatcca attctcttca 300

aaaatggtga aggttgcgga gcttgttaca aggttcgatg cttggacaag agcatttgtt 360

cccggagagc cgttaccgtc aataattacc gatgaattgt cccggctgct ccaaaaacca 420

a 421

<210> 4130
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-A1

<400> 4130

acgcgtccgt tacttacttc tcaggtaata aatcgtaaga tttatcaaac gcaagcaaaa 60

gagatggccc aaaagctagt tgcacagggt ggtgagacgg gagatgtatg ggatgatggt 120

gtttacgaca atgttacaaa ggtatatgta nggcaaggcc agtatggtat agccttcgtc 180

aagtttgagt atgccaatgg ttctgaagtg gttgttggan atgaacatgg agagaagact 240

gagctaggag ttgaagagtt tgagattgat tcggatgact acatcgtcta cgtggaaggt 300

tacccgtgag aaagttagcg atatgacctc aggaaatgat cacgtttctt tcattcaaag 360

acntctaaag gcaaaacctc tcagcctaac cgttaaaaaa acctgggggt ttaagtttgt 420

gcnacatggg tggaaaaaan ccgttggggt tt 452

<210> 4131
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-A2

<400> 4131

gggcggacgc gtggggtttg gagataagac tgagattgga gaacgcggaa tcaacctcag 60

cggagggcag aagcaacgta tacagctcgc acgtgctgtc tatcaggaat gcgatgtata 120

cttgctcgac gatgttttta gcgcagtgga tgctcatacc ggttcagata tattcaagaa 180

atgtgtaaga ggagctctga aaggcaagac cgtattactc gttacccatc aagtggattt 240

cttgcacaac gtggattgca tcttggtgat gcgggatgga aagattgttg aatcaggaaa 300

atatgacgaa ttagtcagct ccggattggg attttgggga acttgtggct gcacatgaag 360

acgtcaatgg agctggttga acccggtgca gactctgcaa gcaagtcgcc acatccccca 420

a 421

<210> 4132
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-A3

<400> 4132

cggtaccngt ccagaattcc cgggtcgacg tccggattcn tcatctctct cacagaaaaa 60

agtaaaaaaa aacctagatc gctcttcaca tctcttcgaa cgattctctc tttcaagatg 120

caaattttcg tgaaaacact cactggtaag accatcactc tcgaggttga gagctctgac 180

accatcgaca atgttaaggc aaagatccag gacaaggaag gcattcctcc tgaccagcaa 240

agattgatct tcgctggtaa gcagctagaa gatggccgca ccttggctga ttacaacatc 300

cagaaagaat caacactcca cttggttctc aggttaagag gtggtatgca gatctttgtc 360

aagactctga ctggcaaaac cattaccttg gaggttgaaa gctctgacac tattgacaac 420

gtcaaggcaa aagattcagg acaaggaagg aatccctccg gaccag 466

<210> 4133
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-A5

<400> 4133

acgcgtccgc cgcttataaa ctttctctct tctgaaaaca gatctctcta ctttgcttct 60

tcactcgact tgtatctatc atccatggct tccgagaatc ctttccgaag catattgaag 120

gcgttagaga agcctgatgg tggtgaattc ggtaactact acagcttacc tgctttgaac 180

gatcccagga tcgataaact accttattcc attaggatac ttcttgaatc ggccatacgt 240

aactgtgatg agttccaagt taagagcaaa gatgttgaga agattcttga ttgggagaat 300

acttctccca agcaggttga gattccgttc aagcctgctc ggggttcttc ttcaggactt 360

tactgggtgt tcctgctgtt gttgatcttg cttgcatgag agatgccatg aataatctcg 420

gtggtgattc cnaata 436

<210> 4134
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-A6

<400> 4134

acgcgtccgc ccacgcgtcc ggttatttca attcacgttg gtcaagccgg tatccaagtc 60

ggtaacgcat gctgggaact cttctgcctc gagcacggta tccaacctga cggtcaaatg 120

ccatcagaca agaccatcgg tggtggtgat gatgccttca acaccttctt ctccgagact 180

ggtgcaggta aacacgtccc aagatgtgtc ttcctcgatc tcgagccaac cgttattgac 240

gaagtcagaa ccggtaccta cagacaactc ttccatccag agcaactcat ctcaggtaaa 300

gaagatgctg ccaacaactt cgccagagga cattacacca ttggtaaaga aatcgttgat 360

ctctgcctcg atagaatcag aaagctcgct gatcaatgca ctgggtctcc aaggtttcct 420

cgtcttcaac tca 433

<210> 4135
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-A7

<400> 4135

acgcgtccgg tcggtgattc acattccgat ttggtgtctt ttttactctt aacaagtcct 60

caaaaaccct acttttactc gagattttgt ctccgccgcc gagtaccaag tgcctcccga 120

tctacgcccc aatccctaaa tggctacgga ggctacaacc gtacccaaat tccaggaacc 180

tgatctccgg caggtttctc agacaccgga tttcaaaccg gaaatcgctc acgatggtct 240

taagttctgg caatttatga ttgctggttc gattgctggc tccgtcgaac acatggcgat 300

gtttcccgtc gataccatca agacccatat gcaagcgctt cgaccatgtc ccttaaaacc 360

cgtcggaatc cgggaagctt tccgttcgat tatccaaaag gaaggacctt caactctgta 420

tcg 423

<210> 4136
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-A8

<400> 4136

anttcctctg tcttccttcg cttccctctt ctctcaccac antccgagag agagacanta 60

ctgtaatcca agtgagagag agagagaaat ganaatgcag acgaagaagc tctttatcac 120

cattgtctcc tttcttctct atgctccatt gttcttatct tcaccagttc ctgancctga 180

atctgtcgtt gaagaagttc acaagagnat taatgcgtcg gttgcaggaa gaaggaagtt 240

angttacctc tcatgtacga ccggtaaccn aatcgacgac tgttggcgtt gtgaccctca 300

ctgggagcan naccgtcaac gtctcgctga ntgcgccatt ggattcggcn aaaacgccat 360

cggtggccgt gacggtcggg atntacgtgg tcaccgactc aaggaagncg 410

<210> 4137
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-A9

<400> 4137

accctgccgt accggtccaa aaattcccgg gtcnacccac gcgtccgcnc acgcgtccgg 60

tccatcgnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnagagaaag agatcttcac aaatatgact gtgatgaatc accgacacaa gcaatgtcat 180

tttctcctcc tccttctgat cactgtcttc tctgccgcgt tggatggtgt ttcttccgag 240

acagacgtcg gagggtttga ctacggtgaa gcattgtcta aaagcttact ctactttgaa 300

gctcagagat caggaagact tccgtacaac cagcgcgtga cttggcgtga tcactctggt 360

ctcaccgatg gtcttgaaca aggggttgat ttaatgggag gatatcacga cgccggagac 420

catgttaaat tttgganttc cgatgggctt ttaagggnga caatgttt 468

<210> 4138
<211> 489

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-B10

<400> 4138

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tccggcgcat tgaattacac atcgccgcaa attcgaagtg tctcgagacg taattacact 120

tgcgatccga gtaaatcgta ctcggtcgct gatttgaact acccgtcgtt cgccgttaac 180

gttgatggag tcngtgcgta taagtacacg cgcacggtga cgaacgtggg aagagctggg 240

acttactcng ttaaagtaac ttccggagac gacagggagt caagatttcg gttgaaccgg 300

cggttttgaa tttcaaggaa gctaacgaga aaaaatcgta tacggtgacn tttactgtag 360

actcgtcgaa nccgtccgga tntaacanct ttggggagta ttgaatggtc ngatgggaaa 420

cacntngtgg gaantcccgt ggcgaataac tgggacataa tccgtaaatt atgagaaatg 480

naaaggggg 489

<210> 4139
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-B12

<400> 4139

tgtttacgcc tggcctgtac cgggtccgaa aattcccggg tcgacccacg cgtccgcnca 60

cgcgtccgcc cgaagttgct cttcttgttc actctctgat ctagtcttaa ctcctccaac 120

tacaattcca tggcggtgtc tcttcttctc tggactctct tcctcttctc atttatcttc 180

tccctccaat cacacagcaa agaagaagaa gaagacacac caatcacacg attccagcaa 240

tacttaagat tcaacaccgc tcatccaaac cctaactaca ccgcaccaat ctcttttctt 300

cttgatcaag caagatcaat tggtcttact tctcgaacca tcgagtttgt tcctggtaag 360

ccagttcttc tcctcacatg gctaggctca aaccttaacc tttcttcaat tctcttcaac 420

tctcatctcg attctgttcc cgcggnatcc gagaangtgg atacatccaa cantctcaag 480

ctcaac 486

<210> 4140
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-G8

<400> 4140

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gggattgtat ggttcgttgt tactgataga ttacttaagc tatggtttgg tttagaatcg 120

gttcttctgt ggcaaagctt gccataagaa ggacactgtc tcagtctcgt tgtggttcat 180

atgccactag aacaagggtt ttgccttgtc aaaccagatg ttttcactct acaatactca 240

aatcaaaggc agagtctgct gcacctgttc cacgtcctgg tcccactttc taagctaact 300

gatagcttct tagatggnac angcantgtg tatctagagg agttacaaag agcttgggag 360

gctgatccca ncagtgttga tgagtcgtgg gatanctttt tagggaaatt ttgtgggtca 420

ggctt 425

<210> 4141
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-G6

<400> 4141

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gatatgtggg gtactggatg gagcatgnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncatggatg acatgttctt aagttccatt 300

ttggaggatg ttccagggaa tgagaatttt ctttctttca aggagtcgga taataacaac 360

agctccaatt cctcctaacc cgaaacaact tgaagggaa 399

<210> 4142
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-G7

<400> 4142

ctctctataa caaacattaa tacacacacc aaaaaaaaac ctgtttatgt ctcaaagatc 60

tctgattcct cattcttctt ctatagcttt tggtctccat tctcatctct taatctccag 120

tgagatcagc tccaattcta actggtctct ctaaataaaa aacagaaata aaaatccaac 180

ctttttcaat tttcgttcaa ttttcccgga aaaaaaagcg atccttttga tttttcgatt 240

tctccaagta acaattcaaa atgggtctaa agggttttgc tgaaggagga atagcttcga 300

ttgttgcggg ttgttcgacc cacccgcttg atctaatcaa ggtccgaatg caacttcaag 360

gngaatcanc tccgaatcaa aacaaatctc cggacnagct ctggctttta aaacttcg 418

<210> 4143
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-H1

<400> 4143

gaactgttac gcctgccgtt accggggcca aaattcccgg gacgacccac gcgtccgcat 60

catcgcagag gagacgatct tacgcgacga atccttgaga gattgagagg gacaagcgag 120

ttttgtaggt gtctcagacc ggacccaagg attgttgacg gtctatattg aacaagtaaa 180

caaggatgcg taagtggatc tgttgtacat gtcaaataga agactcaaat gaagagcaac 240

aactgaaaag ttcacagcag caatctgatg caaatcataa gaattcaaaa ccagcacctg 300

ttgcaaaaca tgaggttaag aaggaagctc ttcccatcga ggtccctccc ttgtctttgg 360

atgaggtcaa ggaaaagact gaaaattttg gattcaaggc actgattggt gaaaggtcct 420

atgggagaat atattatgcg acactaaatg aaggngttgg gggttgcccc aaaaaaaatt 480

tgatttc 487

<210> 4144
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-H10

<400> 4144

gtacggnctt nanagttgtt ccggcggagg aatggttgaa tcaagggata tnttcgagtc 60

acgacggtga acatgaccta ggcctaatgg ttacagattt tctggaaacn ggaggtggta 120

gcggtggtgc tggttcctgg tgcagcagcg acagngattc tggattccca natccttctt 180

acctttccna taagattcag tatctcaagt actctatggc tcaacacgaa acngangttc 240

tcncggtggt tcgtacattg atgcttacta ttaaggagaa agatctacac tcctgtgaaa 300

tccggtacat gtaacgctan ttgcatcagg ttttatctcg ctaagctttt ganacnttcn 360

ggatatgatg catctgtatg ttcaaccaga tggcanggtg gtgggaaaag ttccctgggt 420

ggg 423

<210> 4145
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-H11

<400> 4145

acgcgtccga gaagaggaac ggtatttaat acacttacaa atttgatatt ggaagaacca 60

aagatgccct ggacagcatt cttcatgttt ttcaacagaa cttgcactcg tctggttgtc 120

tttttcctcg ttattctgta attttgttcc tttcaggtgt tgtttccgga attcggaata 180

gttctttgtt gttgtgctta ttatactggt tagtttgtga gaatgtgcat tgttggaaac 240

aagaagggaa accgatcatt gaaggaaata ggaactttta tgatgactac atgtttcatt 300

gctaattacc aatccgttca agtttgccag gctgaatatt tcagacagtt gcttaagcct 360

gtaacgtagt ctagcgtctg gagttttcng gaaattgggg ttttgaaccg gctaactact 420

tttgatttcg aaaaaaattt actgtgag 448

<210> 4146
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-H12

<400> 4146

aaactcccgg ttcgtcccac gcctccnaaa ngagtcnnaa taaanaaaag caaattaaaa 60

attaaatccc taaaaacaaa cgagcgtatt gttatgaagg aggacgaaga agaagaagca 120

gtgatatcga acggcatgaa cgacgacgac gatactaaca atattaacaa cagttccact 180

gaatttgata acaatcgtat cggagacgga gacgataaca gtaatctgaa tcagatcaaa 240

caagtatggg gaacgtggga ggagttggtg ttaacatgcg ccgttaaacg tcatgctttt 300

tccgattggg actccgtcgc taaggaggtt caggctcgtt cccggagttc tctcatcgtt 360

tccgccgtca attgcaggct taagtatcaa gatttcaaac gtaggttcca aagattccgt 420

cgacgtcgga gacgaaaata ccgaagcggc ggcgaacgaa ggaggatga 469

<210> 4147
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-H2

<400> 4147

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aacgtctaat agttaaagag agcttttgtt ttttctttcc catgtctatc agtatcacca 120

ccgagaaaat atcatcaaca ccaccaacca nacattaacc cacccgagag tacccaatgc 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnncacca ccatctgtac 240

aaagcaaagt tatcatcaaa ggaaaccaaa ccattctgag tttcaaagct attttccggc 300

ttggtttctt cagcaccacc aatggttcct ccaattggta cttgggtatc tcttacgctt 360

ctatgccaac tcccacccac gtttgggtcg ccaatcgaat ccgacccgtt tcggatcctg 420

actcttccac tctcgagctc aactccaccg gataactaan cgtcagttac 470

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<210> 4148
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-H4

<400> 4148

ctgtttacgc ctgcctgtac cggnccnana attcccggag tcgacccacg cgtccgcttt 60

gaccgttcct cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnncaatc aatctctagg gttcttcttc 180

agcaatactt cagaagctgg ttttggccat ggaacccaat gggtacagga aagaaagaag 240

aaaggaacaa catttgggga gaatgaatgg tggtggtggt gatgttgaga ctgatcttga 300

tccatggact gcatgggctt acaagcctcg cactatctct cttctcctta ttggcgcttg 360

ttttctcatt tgggctagtg gagctcttga tcctgacagc actacatctg atgatcttgt 420

cacttctgtc aaaaggggaa tgtgggctaa gatngctgtc cttcctgcta ntccttggcc 480

ca 482

<210> 4149
<211> 377
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-053-Q1-E1-A7

<400> 4149

atcagatgga ggagaaaagg atgattctta agtcattgga agatctggat tcgttacgta 60

aaaggtttga tgctgcagaa caagttgagg acgcattgac aggcttgaag gtgctcgagt 120

ttgacggaaa ctttattagg ctccaactgc gaacatatat tcaaaaacta gacggttttc 180

ttggacagca caaatttgac cacattactg agccatctga attgatccat gaattgctaa 240

tataccttaa ggataaaact acagagataa caaaatttga gatgttccaa aatgatatat 300

acataaggag acatcatcca gggcagctga ntctttcagg cacggtaagg gttacacttg 360

cagtgcctaa gacacaa 377

<210> 4150
<211> 382
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-053-Q1-E1-A9

<400> 4150

tctgattgat atagaaatcg aaactcaaat tggagaacat tcgagaagct ttggattttt 60

gaatcacgaa gacatggaaa aaacagaatc tgtatcagga aaggggaaga gagtgattgt 120

tatcggcggc ggaatcgccg gctctctcgc ttcgaaattt cttcaattcg attccgatct 180

caccctcatt gatccgaagg agtattttga gattatttgg gcaagtttaa ggtcaatggt 240

agagccagct tttgctgaaa gatcggtgat aaaccacaan aagtatttac aaaatggtcg 300

tagttgtgac ttctccaccg gttaatatca cagacaccgg atgttttgac cgccggatgg 360

gtcttggtct ttggggtatg nt 382

<210> 4151
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-053-Q1-E1-B12

<400> 4151

gggcgcgaaa cagagtaagg ctcactttgt tttagctttc tcctctactt cgataatgcc 60

gtttgctcct tccttgttgt catcgtcttc ctcagtctct caatttcttc ccagattccc 120

caacgcgact agattcaatg taactccacg gagcagagcc gccaccgtcg tcgcggcatc 180

cgtcaccgac ctagccgggg tcgacagtac aacaatcgcc gtactcngtg gaggatccgt 240

agcagcactc gcggcgatgg tttccttaac ggatccngag aggaggcgga aattgcaggc 300

ggaggaagtt ggcggaggcc ataangaggt tgtgagggaa gtatttcaat aacacggggt 360

tcgagaggtg gnggaagatc tacggtgaga ctgangaag 399

<210> 4152
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-053-Q1-E1-B4

<400> 4152

cagatgatcc aaatatgcat agtatactta accgtataat aatgcctgag tccattgaaa 60

agcatggagt caactggaaa ggcgttgact ttcttgtttt caacacttac atttggtgga 120

tgaacacatt cgctatgaaa gtcctacgag gatcgttcga taaaggagac accgagtatg 180

aggagatcga acggccagta gcgtatagga gagtgatgac gacttgggga gattgggtgg 240

aacgaaatat tgatcctcta cgtaccactg tcttctttgc naagcatgtc tcctcttcac 300

atcaagagct tggattggga agaatccaga tgggatcaag tgtgcantta gnagacgaca 360

ccaatccgta agacatgtca atgccattca gcggtangaa 400

<210> 4153
<211> 396
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-053-Q1-E1-B7

<400> 4153

catcaaattc actcacgaaa atgtcaaggc catgatattg gatattgttg tgccgggaac 60

tgacacggcg gctgcagtgg tggtatgggc catgacttac cttattaagt accctgaagc 120

aatgaagaaa gctcaagacg aagtgaggag tgtgataggt gacaaaggat atgtctctga 180

agaagacata cctaatctcc cttacctaaa ggcagtcatc anaggagtct ctttcgggct 240

cgaaccagtc atccccattc ttctacacag nggaanctat cgcaagacgc agagataggt 300

ggctatgata tttccgggcc aaggacnatc attcaagtnn aacncatggg gcgggttctc 360

cgtgacanan gccgcnttgg gggagacaac cctnaa 396

<210> 4154
<211> 345
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-053-Q1-E1-C11

<400> 4154

ccaatctcca tcgctccgat ccagattccg atggacgcca ccgagcagtc tctccgtcaa 60

tctctttccg agaaatcctc atccgtcgaa gctcagggta acgccgtccg agctctcaag 120

gcttcccgtg cagctaaacc atgaaatcga tgctgccant gagcaactca acaaattgaa 180

gctcgagaaa tctaccgtcg agaaggagct tcagtctatt ancagtagct ccggtaatgg 240

ttcgcttanc cgtgaggcnt ttcgaaaagc tgttgtcant acncncgagc ggggtttgtt 300

ctanancnct tcgtntaaga tcnacagtgg ngtcggctgg acttt 345

<210> 4155
<211> 357
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-053-Q1-E1-C12

<400> 4155

tcaaagatcg atttggggat caatcgagga agaagatgac ggaggcgatg ataaggaaga 60

agccaggaat ggcgagtgtg aaggatatgc cgttgcttca ggatggtcca ccacctggtg 120

gattcgcgcc ggtccgatat gctcgccgga tctccaacac gggacctagc gccatggcta 180

ttttccttac cgtttccggt gcttttgctt ggggcatgta ccaagttggt cagggcaaca 240

aaatccgcag ggcgttgaag gaagagaagt acgctgcacg tagagcaatt ctaccgattc 300

ttcaagctga agaagatgaa aggtttgtgt ctgagtggaa caagtatcna gaatacc 357

<210> 4156
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-G5

<400> 4156

ttttttaact ccgtttaaat tttccgtctg aattttacaa aggaacacta atgtcagctt 60

ttgacggcgt tgaaaatcaa atgaacggtc cagattcatc tcctcgtctc tctcaagatc 120

ctcgtgagcc tcgctcatta ttatcatctt cttgtttccc aatcaccctc aagttcgttg 180

atgtgtgtta ccgagtcaag atccatggca tgagtaacga ttcttgtaat atcaagaaac 240

tattaggatt aaaacaaaaa ccgtccgatg agacaagatc gacggaggag aggacgatac 300

taagcggagt caccggaatg atatcacccg gcgagtttat ggccgttctt ggaccatcgg 360

gaagtggcaa atcnacgcta ctaaacgcaa tcccaaggga aaacncc 407

<210> 4157
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-E2

<400> 4157

tgttacgcct gccttaccgg gccaaaattc ccgggacgac ccacgcgtcc gcccacgcgt 60

ccgcgaaaag ctaatccaaa actctttaat tatttgcaac aactgatcaa tggctgtaac 120

aagctcttct tctacttgtg atggtttctt catcatcagc cttattgtta tcgtttcttc 180

attgtttggg acatcatctg cgcagttaaa cgcaacgttt tactcaggca catgccctaa 240

cgcctctgcc atcgttcgca gcactattca gcaagctctt caatccgatg caagaatcgg 300

aggcagccta atccgccttc attttcacga ctgttttgtt aatggttgcg atgggtcgct 360

cttgcttgac gacacttcaa gcatccagag cgagaagaac gctcctgcca atgcaaactc 420

aactagagga ttcaatgttg tcgagagtat caaagncaag ccccca 466

<210> 4158
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-E3

<400> 4158

gaactgttta cgcctgcccg taccggncca aaaattcccg ggaacgaccc acgcgtccga 60

ctacgattgt tctgcccata tgatttgggt cggtgagcga accagacagc tagatggtgc 120

ccatgtcgag ttcttaagag gtgttgctaa tcctcttgga atcaaggtga gtgataaaat 180

ggatccaaag gagctagtga agttgattga gatcttgaat gctgacaata agcctggaag 240

gattacaata atcacaagaa tgggagctga gaatatgaga gtgaagcttc ctcatttgat 300

cagagaagtg cgacgtgctg gacagattgt gacttgggtc agtgatccaa tgcacggaaa 360

caccattaag gctccttgtg gtctcaagac tcgtcccttt gacgccatct tggctgaagt 420

gagagctttc ttcgacgtgc acgagcaaga aggtaaccan cccggagga 469

<210> 4159
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-E4

<400> 4159

acgcgtccga ggatactttg tatggtcatt gttggataac ttcgagtggc aagatggtta 60

caaaaacagg aaatattanc ttcagaggca tcttttgagt atgcaagaag ctgtttgcat 120

cnacaaagtg aatgttacag gatactttgt atggtcattg ttggataact tcgagtggna 180

agatggttac aaaaacagat ttggactcta ctacgttgat ttcaaaaata acctcacacg 240

ttacganaaa gaatccggca agtattacaa ggatttcctc agtcaaggtg ttcgtccatc 300

cgcgctcann aaggatgaag ctttaagcta nttctgtttc aatgtgtttt tcctaagttt 360

tactttgtga agtgaccaag attcatgang gccctgggtc taananaaag gagtttaatt 420

ttcctc 426

<210> 4160
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-E5

<400> 4160

agccgtttac gccgccagta ccggtccaga attcccgggt cgacccacgc gtccgcggac 60

gcgtgggaaa aaagcaaaag actcagctaa aaagcgacct actagagagg aacgggagag 120

aaacaaaagc aatgggaaga agagttctta tgctgatcaa cctgtatcat ttgtgtcaag 180

tggcataatc gattctgaga tagctgttgc aaaaacctca gttgaaaaag ttgcaaaaga 240

ggtagctgaa actactccgg gaacctctaa tggagcagac attggagcat ttgaggtaca 300

taccaagagg ttttggatcc aaaatgatgg ctaaaatggg attcatagat ggaggtggtc 360

taggaaagga tggtaagggg atagcacagc caatagaagc tgttcagcgt ccgaaatcac 420

ttgggttang tctggatttc tccattgaca ctgaagaccc gaatccgtca agttataa 478

<210> 4161
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-E6

<400> 4161

ttaacgaaaa agacttgtcg ttctcaattc ttatcgattt aagaacaaat catctaacga 60

agattacttc cgaagatcag aaacaaacac aaactgtgaa tcgttgtttg ttaattctct 120

ttaaaatcgc cagaagaaag agatctccgt tttctacaga agaaaagcaa gagagtaaga 180

atgggatcgg aacaaaacga tagcacaagc ttcacgcaat cgcaagcttc agagccaaag 240

ctatgtgtta aaggatgtgg tttctttgga tcaccatcaa acatggatct ctgttctaaa 300

tgttacagag gcatttgtgc tgaggaagct caaacagcag ttgctaaagc tgctgttgaa 360

aaatctttca agccttctcc tcctcgtagt ctcttcatag caagaacctc ctgntgttg 419

<210> 4162
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-E7

<400> 4162

taataattct ccagaacatt ttgcacattc cgtttcactc cgtgttgttg gatcccccaa 60

aggtaaaacc tttttcccca gattatttct atttcgttcc tctcttctcg atttcgactg 120

attttccgtt tttatgctct tctcttttcc attttgaact ccaattttga ttctttaaag 180

aaaatgagtt gctttgggtg ttgtggggag gatgatgata tgcataaaac tgctgattat 240

ggaggtcgtc ataaccaagc caaacacttt cctccaggaa atgatgcaag gcaccaccaa 300

gcctctgaaa ctgcacagaa gggtcctcca gttgtgaagt tgcagcctat tgaagtacct 360

attatccctt ttaagtgaac tcaaagaagc aactggatga atttggntc 409

<210> 4163
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-E9

<400> 4163

gacctgttac gcctggccag taccggtccg aaaattcccg ggtcgaccca cgcgtccgca 60

gctccgtacg atcacaagga ttcactgatt tctaagcttt tcatagaaag aagaagaaaa 120

aggcggaatt cgatggtgga tgcgattcaa gtagctgagc tgagaagatt cgtcgagcag 180

ttgaaattga atccttcgat tctccacgat cctagtctgg ttttcttcaa agaatatctc 240

cgaagtttag gagctcaagt tccgaagatt gagaaaactg aaagagatta tgaagataag 300

gctgagacaa aacccagttt ctctcctaaa cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnaccaa gacaatgagc ctcctcaagc 420

cgatgggaga ccctactgct gaagtgaccg atgaaaatag ggatgatgct cagtcagaga 480

agagcaaagc tatggaggc 499

<210> 4164
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-F1

<400> 4164

ctgttacgcc tgcngttacc ggnccgagaa ttcccgganc gacccacgcg tccgtaaaaa 60

tcacccgact ttaatgatta aataccctga ggctgtagac ttctatgact attacaaggg 120

gcagatggag ccctgggatg gacctgcttt ggtattgttc agtgatggaa agactgttgg 180

agcttgcctt gaccgcaatg gacttcgacc agctagatat tggcggacaa gtgataatgt 240

tgtctatgta gcctctgagg tcggagttct tccaatggat gaatcgaaag tcaccatgaa 300

gggtcgtcta ggacctgggt atgatgatat ctgttgactt agagaatgga caggtatatg 360

agaacacaga agtgaagaag cgggttgcat catataaccc atatggaaag tgggttagtg 420

aaaacctgcg aaacctgaag ccttccaatt anctctcgtc agcgattctg gana 474

<210> 4165
<211> 56
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-F11

<400> 4165

acgcgtccgn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngg 56

<210> 4166
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-F2

<400> 4166

ccgggnccag aattcccgga ncgacccacg cgtccgcgta aagccattat cactaccaat 60

ccaaaagagc ttttattaat acaccttact cgtgaccgga ttcgcagagt tcacgagctt 120

ccgagtcaaa aacactctaa aacaaaacca tgactttgtt ccatagactc gatctcatcg 180

atccgtacac gtgtacacca ctcatcgtcc gtgaaacctc cattgttgaa ccttcatcat 240

tgttcctagg gtttccttcc ttcatcgacg aagacattga agatctcttc gagttttcat 300

cacctaatcc tctcgatcta ttcgaaaccg tgacggatct ggttaagatt aagaaatctc 360

cgtcgtcttg caagtacaag gtgattcgtc ggagattaga gccggagtat ccattgaagg 420

tatccttggt gaacgtgttt ctgaattggg gatccaangt ttgg 464

<210> 4167
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-F4

<400> 4167

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cgacagttct tgggaagtat gttattccaa ggatgattta cgacgacgtc gttcacgtcc 120

tgcatttgtt tcattattac gtacattatg ttttaaatta cgtgatgata ctggattatc 180

gggaatcttt tttgatgaac atccagagaa taaaaatcgt cctcctgatt ttcttctttt 240

cacagcactt acaacactta tcaatagtga cacggatgaa ggacgacatg cattagaagg 300

tttactttgt atcatacaat taccacatcc taaaattgcc aattttattg tagatcaaac 360

aacattttgt atgcgattgg taaaaggatt agaagaacga tataaacgtg taccattgac 420

atttgatacc aatgtgactg aattaccaat atcacatcca cataatggcc ccaaggctgg 480

<210> 4168
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-G1

<400> 4168

ntgttacgcc tgccggtacc ggnccnnaat tcccgggncg acccacgcgt ccgatctgtg 60

tgagtatgtt ggaaagctat caatgaatgc ttgcagatct ctggaaatct tttggatgaa 120

gggaaaatta gatccatagt tgatgagata aagcaagtta tgaccgcaag ctctagtagg 180

aagcgagaga ggggagagag ggcccatgct gaagactttg acgctgaaga gggagagctt 240

attaaagagg aaaatgagca agaggaagaa atttttgatc aagtcggtga aatattggga 300

acattggtta agacattcaa ggcctcattt ctacctttct tcgatgaact gtcctcttac 360

ttaactccta tgtggggaag agataaaaca gcggaagaga gaaggattgc tatatgcatt 420

tttgatgatg tancaaaaca atgccgtgaa nctgccct 458

<210> 4169
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-G10

<400> 4169

acgcgtccgc agaaatagag aaaaagtttc aatctttctt catcttcttc ctccaaaatc 60

cttgatttct aaaaaggaga agaagagaag agaacgcgat taccttgatt caccctcctc 120

cttcaggttt gggaggctcg aatactcagg aaatgaaagg ggcaagtggt gctgttaaga 180

agaaacccca ggtgttgaac gaagctggtg aggcggagac ggcggtggaa acagtcggag 240

aaagccggaa aattannnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnntcg attcttcgcg agattggtga tgataggcct acgnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

nnnnnnnnnn nnnnnnngg cgtgacct 448

<210> 4170
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-G12

<400> 4170

ggatctgctt cagatctaaa ngcaatcaaa gagaagaaga agaaagctaa gcgttcccgc 60

aaaaagcagc ttgttcaaga agaggaacga gtaaagggaa aagtcagcat ganggtgtac 120

ttgtcataca tgggtgctgc atataaaggg gctctgattc ctcttattat actcgcacaa 180

gctgctttcc aatttcttca gattgctaag taattggtgg atggcttggg caaatcctca 240

aactgaaggt gacgaatcta aagtggatcc tactctgctt ctcatcgttt atacggcttt 300

agctttcngg agctctgtgg ttcatatttg ttccagctgc tctggttgca acttttggtc 360

ntgcaactgc acagaaactg ttcctaaata tgcccaaaaa tttngttcca a 411

<210> 4171
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-E12

<400> 4171

ttgttggctt tgacgatgtt gaaaccgccg ggtgagtttg gggcggatat tgttgttggg 60

tcgggtcaga ggtttggtgt tccgatgggt tatggtggtc ctcatgctgc tttcttggct 120

acttcacaag agtataagag aatgatgcct gggaggatta ttggtgttag tgttgattct 180

tccgggaagc aagctttgcg tatggctatg cagactaggg aacagcatat ccgcagggat 240

aaagctacca gcaacatctg taccgctcaa gccttgcttg caaatatgac tgctatgtat 300

gctgtttacc atggaccana aggcttaaaa tctattgcac aacgggttca tggtctcgct 360

ggtgtatttg ccttaggatt gaagaaactg ggaactgcac aagtccaaga tcttcccttc 420

tttgacactg 430

<210> 4172
<211> 384
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-G2

<400> 4172

acgcgtccgc acacaattgg gaatggacat tgtccacaga tcacaaaccg tctctacaac 60

ttcaccggaa aaggagatag tgacccgaac ttagacacgg natacgcagt caaactcaga 120

ggaaaatgca agccanctga taccacaacg gctctagaaa tggatccagg aagctttaaa 180

acgttcgatg aaagttactt caagcttgtg tctcaaagaa gaggattgtt tcaatctgat 240

gcanctcttt tagacaatca anaaantaan tcttatgttc tcaagagttt gaatagngan 300

gggtctactt tctttaaaga ctttggtgtc tccatggtaa aaatgggtca gattggantt 360

ttaacgggtc angttgggga aatt 384

<210> 4173
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-C1

<400> 4173

ttacgnctgc ctctaccgcg gntcnnnttc ccggaacgac ccacgggccc gcaatttctc 60

tccacttaaa accaacccca attctcacca aaaatcgcaa aaaaagattt caactttcga 120

taaacccaga tcgaaaaatc agatttttcc aagatcaatc agagagttag agatggagta 180

taataacaac aatcagcaat ctttttggca gttcagcgac cagctgagag ttcagacacc 240

gaatctagcg aatctgtctc tcaacgactc gatctggagc acaaactctg tcttcaaaga 300

gcgtcgaaac ttagacatag ccgccaccac cgacaagaac aacaaccaga tcgactatta 360

tcaagaagaa gacaacttcc gacaacatca attccaactg gaactggaag tcttctggtt 420

caaacaacga catgggttta ggattccggg cctgtggggt taaaatccac ccgggng 477

<210> 4174
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-052-Q1-E1-C10

<400> 4174

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tcaaagacag ttctcgggaa gctgtccgtt tcccaaaatg tagatccttt attgaaggaa 120

acaaagtctc taggaagatt atctgtttct cagaactctg atccttcgac aaaagaaaca 180

aagtccattg gaaggtcatc aacatcacaa aattcagagt cctcgatgaa ggaatcaaag 240

cctctcggga ggttgtcagt ttctcaaaat tcagacgttt ctaaagagtc aaggacgttt 300

tcatccacag gaagtttacc aaggcactcc tcatagggtc agttcgacca atgtatcaaa 360

agccacttcg ggtgtttcaa cagccgtctc taatgctgca acgtcaagga ggaattttac 420

aaaagctaac ccaaaggcga atcctgtca 449

<210> 4175
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-052-Q1-E1-C11

<400> 4175

acgcgtccgc ccacgcgtcc ggaaaaaagt ggaaattttc ctttaaattt agtttaaaac 60

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tattgatttt gggcgtagaa gaagatgaag gcatcgatga agtttcgtga agagcaaaag 180

cctcttttta gggctaaagt tcctttaagc atcttaggtt tacccttca atctgggaat 240

cgtcgccgga gaatccaagg agctcagtct caatctctcc actttcttcg aatctggccc 300

ttctctcaaa agtcgcttac cgtccaaacg attcgtggaa tcctttctct ctaatcgtca 360

aaaccggatc gggatcgttc ggttctccga tttcaagctc tatgctcatg agcgctgaat 420

tcaatctcct aagtcaagga aacccta 447

<210> 4176
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-C6

<400> 4176

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ttccggtgaa aagccgtccc cgtcgccgtc ctgatcttac cttaccgctt cctcaacgcg 120

atgtttctct cgctgtacct cttcctctcc cacctacttc cggtggttcc ggtggctcta 180

gtggatctgc gccgtcttct ggtggttcgg cgtcttcaac gaacactaac agctccatag 240

aagcgaagaa ctattcggat ttaagtgaga ggtaacccgt atcggaagcg gagcaagtgg 300

gaacggtata caaagtgatt caccgtccga gttctcgtct atatgcactt aangtgatat 360

acggtaacca cgaagagact ggtgagaacg tcagatcngt agagaga 407

<210> 4177
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-C8

<400> 4177

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ttggagagag tgagtgtaga tggacctcat atcacagtct cccaactcaa aaccctaatc 120

caagatcagc ttcagatccc tatccacaac caaaccttat ccaccaatag aaaccttctc 180

ctcgctaaga gcccttctga tttcctagcg ttcaccgaca tggccgatcc taacctccga 240

atctcgtctc tcaatctagc tcacggctct atggtctacc ttgcttacga aggtgagcgt 300

acgattcgtg gtggtcctgc tgtaacgcct gctggttcct tcgggaggaa gatgaccgtc 360

gaagatctaa tcgctcgaca gatgcgcgtc ggtcgccaag aagaan 406

<210> 4178
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-C9

<400> 4178

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tcggcatgta catgatcgat gaagccaata tagagacaca tggttttgat ctctctgggc 120

atctgaagca ccctgcaaaa gagccaagct gggcaagctg ctatgctggg atcgagtagt 180

tgggatggtt gaaagagaca aaaaccatac atgcataatt tcttgggtca cttggaaaat 240

gaggctgggc tatggggccc aatcattctg ccatgggcag gttggattag gggaaaagga 300

ccctcacggt tggtgcacta tgaaaggtgg tggttccaga aacaagttct acagatataa 360

gcctgcccta agttacatgc gggtttggga catcaaccan gaattgcact tgattaaaat 420

tgaatccacg ggccgtttga tattangcga gntatcaaca atgcta 466

<210> 4179
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-D12

<400> 4179

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tgtatangag cgcatcggtt tcggagatta cagagattca tgcgtcaagg gaaagtgacg 120

attctttgtc tcgttctcac cgtcatcgtc ttacgtggca caatcggagc cggtaagttt 180

ggtacgccgg agaaagatat cgaggagatc cgtgagcatt tcttctacac gcgtaaacgc 240

ggcgagcctc accgtgtcct cgtcgaggtc tcttccaaaa cgacgtcgtc cgaagacgga 300

ggaaatggtg gtaacagcta cgaagacctt cgatatcaac aaagctaatc gttgatgaag 360

gagacgaaag aggaaatctc naagaccggg actaataaaa ccttaatccc cttgggtccc 420

aaagatctct gattgggaat gaancagaga ccttaatttg 460

<210> 4180
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-D2

<400> 4180

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aaccaatgaa gaactgggta gtgaggggtt tcgtgagttc atatctcttg ttgatcttaa 120

gaaaaatggt ttccttattg gagattgttg tatgtttggt gtcaagttcc atgggattga 180

acctgctaaa cccggaacag cggaaagttt tagcttaata gagaagcctc ttaatcacag 240

agtcacttgg atgatgacca tgttctcgtc cttcaaccct ggaaacgttc atcagtctaa 300

tgaatttgtc gttggaaccc ggaaatggag aattaaagtt catccaagag ggtctatggg 360

tgaaaaagac aaatcatttt ctgtgtatct atcggcacta gggtttgtca ataatgcacc 420

aaagactaaa acttacgccg aggttcaaac tgcgtgtaat ggntttaatt ttgccaggga 480

ncccatt 487

<210> 4181
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-D5

<400> 4181

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gtcgcttctc tttccatcgt cttcctcgtg aacgaaactt ctcgatcttc ttttcttttt 120

tttcacctgt ttttcggtat cacgagaata ctacacttcc cactccactt tatcggatat 180

atttccttga ttttctccga ttgtggtcaa tctggaaaat tattgagaat ctctccctca 240

cttaaccaaa agcgttttta atcagataga gagagaggaa aaagcatcaa ccaaaccatg 300

gctgcgagaa atttggagaa gatggcttct attgatgctc agctcaggct tcttgctcct 360

ggcaaggntt ctgaagacga caaanttaac cgagtacaag gcnccgttac gggt 414

<210> 4182
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-D6

<400> 4182

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gatagaggaa ctcaacaatt gaccaacgat ggcctcaccg gcgcgaggcg agagatactc 120

tctttcttag accaaagact tgcagtggtg tacccagtga tccagagatt caagtcactc 180

atcactctcg acccttataa cgtgaccaag acatggattg gttcagacat ctgcagttat 240

agaggcttcc actgtgacaa tcctcctcac aacaaaaccg cagttactgt tgcttccatc 300

gatttcaatg gctttcagct ctctgctcca tccatcgaag gatttatcga tcaattcgct 360

gacctagctc tgtttcatgt taactcaaac aattttggag gtacggtgnc ctccaa 416

<210> 4183
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-D7

<400> 4183

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aaacgcgctt cgttaccatc atcctcaaat ttctctcagg aactctcttc gcgctcccaa 120

atcgccttct tttgtcaggc ttcccctcgg aaaggtgtta cagagcagga ttgtgatacg 180

tgctgcttcg tctgcggctg gtaatccaca gtctgatgct gactttaatc cgtatgaggt 240

tcttggtgtt aaccctatag agggatttga caagatcaag caaacttatg gaaggaaact 300

taaagatgct cagaggagcg gtgatgaagc cactgctgct ctacttgaga aggcatatga 360

taagctcatg tatgcccaag ttgatgaata ngaaaaaggg tgtgactttt ggttcctt 418

<210> 4184
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-052-Q1-E1-D8

<400> 4184

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aaaaattcta aagagcttat caagctcact tcatacacct agatcgattt agggttcgtt 120

tgatttttt ttttctgtga ttgcgacagc tagagatcta tctctggtgg attttgggtt 180

tatgttccat ggcggatcgc ggatctttcg gatttgctcc tcgattagat atcaagcaat 240

tgctgtcaga agcacaacac aggtggctga gacctgctga gatttgtgaa attcttcgga 300

atcatcagaa gtttcatatt gcgtcagagc ctcccaaccg accacccagt ggttcactct 360

ttctcttcga taggaaggtg ctcagatatt tccgaaaaga cgggcacaat tgggg 415

<210> 4185
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-E1

<400> 4185

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caaacaaaca acaaaccaga agttttattt ttgttaaaga gtaaccaaaa aaaaaaaaac 120

agagtacctt cttcttcaca cacataaaaa gagacggtac caaaaaataa aaacagagca 180

aaccacaaaa atggggaagc atttattccg atcatctcct ccaccggaga aaccaacagc 240

tcatctctct ctcgcggaat cagctgttca agaatgtatg agcaacatca acaccgtcat 300

atcaaaatgg acttctccgg ctgcttcttc ctccgacgac ttcctcttct ccaccaacag 360

tcgtcgtgaa gcagaggagt ttgttacagc cgttagacat ctacaaagca cgatgcatcg 420

tttggtttcc gttaaacctt cctcggggga aactaatcta agcccagaat ccaaaggna 479

<210> 4186
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-052-Q1-E1-E11

<400> 4186

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ttctctatat cttctcctca acttggatat gggtgaagcc gtagaggtca tgttcggaaa 120

tgggttcccg gagattcaca aagccacatc acccactcaa accctccact ctaaccagca 180

agactgccat tggtatgaag aaaccatcga tgatgatctc aagtggtctt ttgccctcaa 240

cagtgttctc catcaaggaa ctagtgagta ccaagatatt gctctgttgg acaccaaacg 300

ttttggaaag gtgcttgtga ttgatgggaa aatgcaaagt gctgagagag atgagtttat 360

ctaccatgaa tgtttgatcc atcccgctct ccttttccat cccaacccca agactgtgtt 420

tataatggga ggaggtgaag gctctgc 447

<210> 4187
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-052-Q1-E1-B9

<400> 4187

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cttgctgagg atgggaaaaa gatggctaag aaattacgga attatccacc acctttggaa 120

gtcatagatg agtatggggc tgatgctgtg cgattgtacc tgataaattc tccggttgta 180

cgtgctgagc cactacgctt caaaaaagaa ggagtactcg gtgttgtcaa agatgtattc 240

cttccatggt acaatgcata tcggttcctc gttcagaatg caaagagact tgagactgaa 300

ggtgggtgtg ccctttgttc ctactgatct ggcaactata caagtcagca aacattcttg 360

atcagtggat tcactcagct acgcagagtc ttgttcgttt tgtccgcgag gagatggatg 420

cctatcggct ttacactgtg gttcctcgtc 450

<210> 4188
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-C9

<400> 4188

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accttgcatg cacttgaagg cattgttggt aaagacaagc ttgtggtcnc aacctcctgc 120

tctcttctcc acaccgctgt tgatcttatc aatganacta agcttganna tgaaatcaag 180

tcatggttgg cgtttgctgc ccanaaggtc gttgaantga acgctttggc caaggctttg 240

gctggtcata angacnangc tcttttctct gccaatgctg cggctttggc ttcaaggaga 300

tcttccccaa gagtcaccaa cgangggtgt ccagaacgct gctgctgctt tganagggat 360

ctgaccaccg tcggtgcacc caantgttan tgctaggcta aangctcagc anaagaagct 420

caatctccca natcctacc 439

<210> 4189
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-D10

<400> 4189

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taatcctctt ggaatcaagg tgagtgataa aatggatcca aaggagctag tgaagttgat 120

tganatcttg aatgctgaca ataatcctgn aaggattaca ataatcacaa gaatgggagc 180

tgagaatatg agagtgaanc ttcctcattt gatcagagaa gtgcgacgtg ctggacagat 240

tgtgacttgg gtcagtgatc caatgcacgg naacaccatt aaggctcctt gtggtctcaa 300

gactcgtccc tttgacgcca tcttggctga agtgagagct ttcttcgaca tgcacnagca 360

acaaggtacc caccccngac ngaantcngc gnggnaagtg ggggggtcag gg 412

<210> 4190

<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-D11

<400> 4190

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ctccatctct caaacctgcc aaaaaccatt cctttaaagc attgccggcg caatctcgag 120

attccttctc tttcccacat acctccaaac ccaccaatct accgttgact ctctcctcgg 180

ctcgttctgt ggcacgcgac atttctcatg cggattcgaa gaaagagctt cttaaggatc 240

cggatgcgtt gtggaagcga tacctcgatt ggttttatca gnaggaaaga gcttgggttg 300

tatctggata ttagtcgggt cggatttacc gatgagtttg tggctgaaat ggagccaagg 360

tttcaagctg cgtttaaggc tatggaggat cttgaaaaag ggtctatnag cg 412

<210> 4191
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-D2

<400> 4191

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ggcactggaa acggtactgt gacgcctgga ggaaaaggga aaagcgacaa gttatctgcc 120

ggagctattg tcggaatagt gatcggctgt ttcgtcttgc ttctcgtgct tttcttgatc 180

gtgttctgtc tctgtacaaa gaagaagaaa gagcaagtcg tccaatcgag aagcatcgaa 240

gcagctcctg ttccgacctc atcagcagcc gtggctaagg aatcgaatgg tcctcctgcg 300

gtggtggcta atggtgcatc tgaaaatggt gtatcaaaga accctgctgc agtgagtaaa 360

gatctgacat ttttcgtgaa atcnttcggc gagtttgatc ttgatggatt g 411

<210> 4192
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-D5

<400> 4192

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tgttcctcgg tttccaatgg gagcttcgaa gttcgacgtt tggacctctg aacctgcttc 120

tgtctctgag aggcgttcca agcttttaaa cgaaatgggt cttagccgtg acccggttct 180

ctcccggtta aaacccgttt cagattcttc agctccaaa gataccggag ccgccggctt 240

cgagatttct cgatcgatct cgtgtaatca attggctcgg cgagatcatg gagagtgttc 300

tgaaagtgtc ggcggttgtg cttcntgtat cgtgagatcg aaatcnggac attaccacta 360

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cgtctcctaa actctctgtt catcantc 448

<210> 4193
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-D6

<400> 4193

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acactggatt tcagtaaatg ggatttgcat atgggtcaaa cctctactag cagcgtcctc 120

accaattccg cttccacgag cgctcccgca ccggcgatgc aggaacggga gattgacctc 180

tccaaactcg atatgaagca cgtcctcgct cacggtactt acggcactgt ctaccgcggt 240

gtctacgccg gncaagaagt cgcagtgaaa gtgttagatt ggggagaaga tggttacgcc 300

acaccangct gaaactacag ctcnccgtgc ttccttcgag caagaggtcg ccgtctggca 360

gaagctcgat natcccaacg ttaccaagtt tatatgagca tcangggaac ctctgatctg 420

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gggcctgttg tgttg 495

<210> 4194
<211> 386
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-D7

<400> 4194

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atcttccatt gcctccagtg cttgctgtta aaactgatga tactgaagaa accagtatgg 180

ctctttgttt ttttctttgc tttgctttac agtttacata gctttatgat tcttaaggtc 240

taaattcttt ggaatatagt cttttcttaa aactgctagc tgtgaatcca cactggtgat 300

gcatttctga tccaagatgt taaacaccca tattgagacc ttgaaaatgt cataaggaaa 360

gtaatggaga cacatacgtc antttt 386

<210> 4195
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-E3

<400> 4195

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ccttcccaat tcttccgttc aaacaaattt ctccaaaccc aaaccctaat ttcctccgtc 120

tgtgaaatca agggttttct ctgatctggg ttttgatcag aaatcagatc taggtttaat 180

tttcgaaatc aaattatgag gaagagagaa agagagaacc cttgttcgat ttgtgggcat 240

taccataagt acgaggaagg agaagtatgt ggagtctgtg gtcactgtat gcctgtttct 300

tccgatacgg gtggcgccgc aacaagtcca cgtcagtgct tttccgtcgg agattctccc 360

tgagtttctt tacctcggta agttacgaca acgcttctcg ctctgagctt cttaaagact 420

caanggaatc tcctccgtgt tcctaataac ggttcctang ngccangaat cctctaacag 480

ggaattcaat tcaacntta 499

<210> 4196
<211> 451
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-E4

<400> 4196

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tgggagtctt cttgagctct gtaatcactc tctagaagct tattttgcct cctaatgtta 120

ttagggtgtt gtactggaat tattaggatg aaccaaggaa gatgagtctc tcggtctttc 180

aaaaaccaag tcttgtaatg aggagctgtc cactgttgta aagtaagtca ttaanatgga 240

atcctttgca ggttcttgtg aaattgttga ggagaaggat gcggtaaggt tagccaaaca 300

ttctagcaga tattgtatgt caccttggg atcaagtaaa gatatggagc agcgtcctgc 360

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ataactataa aaccatcaac ctaagaagag t 451

<210> 4197
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-E5

<400> 4197

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cagaaaccga atccgaatcc gattcaccga aacacagcga agagcatgaa catccagagc 120

aagaacatcc agagcaatct gaatctaacg acgacggtgg atggagcttc ggtggtctga 180

tgaaaactct agccaccaga tccgaatccg tgattgaaac ctaccgacga gatctcnaag 240

aatttggcac angtttgaag aaagagatcg angtggctca gggatcgctt ggtacggtgg 300

gacatgcgat tgatgagctt gggaacacng tgctaaaagg tacggctgan attantgctc 360

aaggtaagga agcgatttta gccggctggt aangnatctg aatcctctga tagcagtagt 420

agtcnagagt 430

<210> 4198
<211> 416
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-E7

<400> 4198

taagctgcaa atttgggata ctgctggaca ggagcgtttc aggaccatca ctagcagcta 60

ttacagagga gctcatggaa tcattattgt ttatgactgt actgagatgg aaagcttcaa 120

caatgtgaag cagtggttga gtgagatcga tagatatgcc aatgagagtg tttgcaagct 180

tttaatcggt aacaagaatg atatggttga aagcaaagtt gtttccaccg aaactggaag 240

ggccttagca gatgagcttg gaattccctt tcttgagacc agtgccaagg attctattaa 300

cgttgaacag gcattcttaa ctattgctgg cgagatanaa aagaaaatgg gaagccaaac 360

gaatgcaaac aaggacatct gggtcctgga actgtcccaa atgaaaggtc aaccan 416

<210> 4199
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-E9

<400> 4199

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agcttcatag ccggaatctt attattccgc catcaatggt aaccgttggt ttcaaaaggc 120

atcacttctt aggagtctct tcttatggtt tatgtattga tgaatctgta aggcatatga 180

gaagcctaag gtcgtcgagc aatcgtcggc gagtaagtaa aagcgccggc gtgtctatgc 240

cggtggcttc ctctgatgat tttccagcgg tttcttggga gtcttggaan gccggaaaag 300

accacngtgg ctcngtcgnt gagtgacgtc atctggcctg caagcaggag cctttgcggc 360

gatgggcgat aatggggaag aatagatnaa atgctaaacc ctaanaggga tctcaatgtc 420

ngttgc 426

<210> 4200
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-F1

<400> 4200

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ttctctcttt tacttgttcg ttcccaaact cttctccctc gatcgtctcc gtcgccgatc 120

tcgtttcttc attttccgcg tgttgattgg tacaaaggtt taatcaaatg gttggaggag 180

gagttatcca gcaaattctt aggaggaagc ttcactccca atcacttgca actccggttt 240

tgtcttggnt ttcttcgaag aaagctcatn aggatgctgg ttcttctggn gtaagagcac 300

ttgccttgtt gggtgctggt gttacaggac tgttgagttt ttctacanta gcatctgctg 360

atgaagctga acatgggttt ggagantcca gaagtaccct tggcctcaag aatggcattn 420

cttagctcat natgaccaag gcttcgatcc gtccgtgggg catcaagttt atcaagcaaa 480

gtcctgtnga atcagg 496

<210> 4201
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-F10

<400> 4201

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gacgtcaaca acaaatttat cgacaccgct ttcgctatan acaacactta ccttctcttc 120

tccgcctacc ttgtcttctc tatgcagctt ggcttcgcta tgctctgtgc cggttccgtg 180

agagccaaga atactatgaa catcatgctt accaacgtcc ttgacgctgc agccggtggt 240

ctcttctatt atctgtttgg ctacgccttt gcctttggat ctccgtccaa tggtttcatc 300

ggtaaacact actttgggtc tcaaagacat ccccacggcc tctgctgact actccaactt 360

tctctaccaa tgggcctttg caatcgctnc ggctggaatc acaagtggct cgatcgctga 420

acggacacaa gttcgngg 438

<210> 4202
<211> 447
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-C8

<400> 4202

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agaatgatct taaccctatt tggaagccag tctttcttag tgttcaacaa gtgggaagta 120

aggacagtcc agtgataata gaatgctcag actttaactc caatggcaaa cacagtctga 180

ttgggaaagt tcagaaatcg ctttcagact tagaaaaact tcatttggcg ggccaaggaa 240

tcaatttttc tttgcctact ggtgctggac anaacaaggt gttaaagagc caacttttg 300

tgngacaagt ttaccgagac tgtccaccac acattcctag aagtacttgg catctggatt 360

tgagttaaac tttatggtag caatcgattt cacagcttca aatggaaatc cccgcctccc 420

ctgaantcnt tgcactacat tgatcct 447

<210> 4203
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-H10

<400> 4203

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ttgncntgac gagtacaanc caaaatgtgt ttagtattat aaaaacggct tgttcgtatt 120

ctcttctctc gctcaacaca tgaagctcaa gtgatccacc gtggttagca aaaggacggt 180

tcacatcatg actatattcg cgagagatct catctatagg atcgaaacga aggttttgtt 240

gccgctcttc cttgtccatt tgttacctta tgtaacatgc cagcaagagt cagaatccgt 300

anaccgcaat agaaaaacca atttcccaac ggaaacggta atcgcaatca ttgtgcttgc 360

aatatttatc tcattaagca tggtcgcttg tttcttgcac aaaacattct atagagcaga 420

ggttgaggcg gcaagccaag aagtgtttca caagtagaac gangggttg 469

<210> 4204
<211> 488
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-H11

<400> 4204

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cggccctaat aatggcttgc agagcanaag aacttgtgtc gttaatcttg tanaagatct 120

gtaatcccaa aaggtctgat tccaaaattg aggaacatgt ggaagaagta gaggatttga 180

aagcagaggc ataactcttt aggtctggtt ccaaaattga gaagcatgtt gaagaantac 240

aggatttgna agcagaggca gaactcttta ngttgaaagc aatctcagga acagaggaac 300

tgaaagcagt ggcagatgtc aagaggttga gaacaatctt aagaanacaa tagtgggaac 360

ctcagaggag tgtaagggtg agatgttgaa agaagatctt tttcttccct cggatcttgt 420

acgtctcata ntgtctcgtc tttctttcaa agacaacaaa cgctcntcta ctgtttgcaa 480

ggcanggg 488

<210> 4205
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-H2

<400> 4205

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gtctggatac gaagcttatc aagtcagtca caacttactc ttgtcgcatg cttacgctgt 120

tgacgcattc agaaactgca aacagtgtgc tggaggtaaa attggaattg cacacagtcc 180

ancttggttc gaaccacaag accttgagca tgttggaggt tccattgaac gtgtgcttga 240

tttcatccta ggatggcatt tggctccaac aacttatgga gattatccac aatcgatgaa 300

ggatcgtgtc ggtcatagat tgccaaaatt cacagaagct gagaagaagt tgccaaangg 360

ttctacagat tacgtnggaa tgaattacta gacttcagtg tttgcaaaag aaattagccc 420

tgatcctaag agtccgagtt ggacgactga ttcnccctgt tgattgggat ancaagatgt 480

gg 482

<210> 4206
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-H6

<400> 4206

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cgtcgtcatg atgcagcagc cacctccagc ttccaacggt gctgcaacag ggccagggna 120

nattccttcc gaccaacaag cttacctcca gcagcancag tcgtggatga tgcagcacca 180

gcagcaacaa caaggtcagc cgcctgcagg atgggatcag cagtctgcac ngtcttctgg 240

tcaaccacag cagcagcatt atggtggtgg tggatctcag aatccaggat cagntgggtg 300

agatccggtc cctgtggntc ggtgacttgc aagccatgga tggatgagan ctatctcatg 360

aacgtctttg ggtcgtactg gcgacgctac ancagntana gttattccca ntagacaagn 420

gcggatattc agaagggt 438

<210> 4207
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-H9

<400> 4207

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gtttctgtat tcggacgcaa gtcttcntct ccttcaantt gggtacncnc anagttgtnt 120

cancgatggc ttacnanaaa gagcttgatg ctgctaagaa agctgcttca ctcgctgctc 180

gtctctgtca gaaagttcaa aangctttgt tgcaatcaga tgtgcaatca aaatctgata 240

aanagtccag tgaccgttgc tgattatggt tcacaagcag ttgttagttt agtcttanga 300

aaaagagctc aagttctgaa nccttttcat tggtggctga agaggactca cgcnatctac 360

ncaaggatgg ttctcangag actctggagc gcatcacaaa actcgtggaa cgan 414

<210> 4208

<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-A6

<400> 4208

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tgggcaacaa gcgatcatgg atgcttattt gtgcctctta catctaacag ccggtatatt 120

agtcgaatct ctatttaatg catttgcaac cgctgcgttc ttcaagttcg tagtcttttc 180

gatttttgag atgagatatc ttctggctat atggaaagca acccgtcctt ccaatagcgg 240

agagggttgg gaaacaatga ggagagaact gtcctttctg tacagtcgtt tctatgggat 300

ccttcttgga ggcattttga nantgtacca agttccacaa ctacatgcan gccgattctc 360

cntctcatgt actcattttg gataccacan atagtcgcca aatgtngtcc ggggattcag 420

gaaagnctct gcacccatat tacatct 447

<210> 4209
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-A8

<400> 4209

acgcgtccga tttgattaac aggcttcttg tccatgagcc ggaaaagcga ctgggggcga 60

acggtgctgc agaggtaaag tcgcatccct tttttcaagg agttgactgg gagaatcttg 120

ctttgcaaaa ggctgctttt gttccgcaac ctgagagtat aaatgacaca agctatttcg 180

tatcacgctt tagtgaaagc agttgcangc gatactgaaa ctggtaacaa cagtgggtca 240

aatccagatt caggagacga gttggatgaa tgcaccaacc tgggagaagt ttgattctcc 300

gccttattat ctctcgctca ttaacttttc tttcaagaat ttgtcacaat tgggcttcan 360

tcaancatga tgtgctagtt gcaaaaaggn ttcagntana gggagganga gactcaccct 420

ttaaaggcca tgggnacgt 439

<210> 4210

<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-B10

<400> 4210

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gaacgtggtg ganaacgtgg tgttgagcgt ggtggagaac gtggtgattt cggacnagga 120

ttcggaggcc gtggaggtcg tggagatcgt ggagggcgtg gacgtggagg ccgtggtggt 180

cgtcgtggag ggcgtgccag tgaanaagag aaatgggttc cagtgaccaa ncttggtcgt 240

ctcgtggcgg ctggtcatat caagcagata gagcagatct atcttcattc actcccggtt 300

aaggagtacc agatcattga tatgctcatc ggtccaacat tgaaggatga ggtaatgaaa 360

atcatgccgg ttcagaaaca aaccanggct ggtcaaagga ctagattcaa ngcctttgtt 420

gtcgttggan atggg 435

<210> 4211
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-B2

<400> 4211

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gctttaggtt ttgacagcta catggnaatg cgccatggtg ctggccccac ctctctgtct 120

gatgatatgc agaatcttga cataaacaag acanatacac agagacttgg ttgttacttc 180

tgcaacgacg tggttgcacc tcangattca atgactgatc gaactctaga ccaacaatgc 240

actgttacac gcccgggtct agctcctatt gcangagctc tcgccgttga actcttagtc 300

ggagtcctac aacacccact tggtatcaat gcaaaaggcg acanttcgag cntgagtaat 360

acacggaaan aatgatgaat tcgcctcncn gggatantac ctcatcagat acgnggctc 419

<210> 4212
<211> 423
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-B4

<400> 4212

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ctttgtcgtc gtcatcatcg tctccggagt aggttgcaga aattcagatc tgaactctca 120

gacgaagctc cgatcttact gagacatttt tgctcgattt gactttcgcc tttaaagctt 180

ctcagagatt attgtactga attaatggcg aattctcgtc aatattatcc atctcaagat 240

gaatcaatgt ccccgacttc tgtgangatc aagggaatgg gaaggtcctt ccagatggac 300

tgaggtactt gggacctgaa atggctgcat cagtgtcttc tactaggagc tctaagcaaa 360

ttgatggaca tgttggtggt tccacaaagg gcttgaacat acaatggggt agttcaaatg 420

att 423

<210> 4213
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-050-Q1-E1-B8

<400> 4213

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caacaagttt ctggagaatt catcattggt attgccagag tcatttcctg gtagtctctt 240

atacagagta atagatgaag acgaccaccg tacaagtaga ctcgtgagtt tcaaagatga 300

acctacttgt tccatgtttc ctactaatga gcaaaacagc agcaagaact tatgaatcta 360

aaccagcaat ttattccacg gaagtatcct ccatttggga cttacatgag acggcggcat 420

cacgctctac tcgtggctct ctctc 445

<210> 4214
<211> 512
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-C4

<400> 4214

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aatccagcta ctaagttncc cttggataat caatcaaaga ctccgccgtc aagtcctaag 120

tccaacctca aaactaagta nggagggaat tcaagattca agcttctgac caatcacctt 180

caagttccag tggagatgca cagagccgta ctgatcggat tgtgttcaaa ctctttggga 240

aagagccgaa tgattttcca gttgccttac gaggacagat tcttaactgg ttagcgcata 300

ctccaactga tatggagagc tacattagac ctggttgtat cgttttgacc atttatcttc 360

gtcaagatga agcttcttgg gaagaacttt gttgtgatct gaagtttcag cttgaggagg 420

cttctagatc tttcagatga tnctttatgg actgatgggg tggctttatc ttaagggtgc 480

aaaaaccaac tcgcatttgc gttaatggtc ag 512

<210> 4215
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-C6

<400> 4215

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tatcgaatgg tcgagctgag aagcctgaga tagacacttc ggctccgttc gagtcagtga 120

gagaagcagc cactcgtttc ggcggttttg gtttctggag accttctctc aataaactcc 180

cagatgcttc tcaggaaaat atccaagaac ctgatatcat gggactcaaa gcacaagctt 240

tcgagctaca aagagaacta attgttaaag aacgcgaaac gctaagaggt gttgaaggag 300

cttgaggcga ctaaagccac agtcttaaag ctgcagcaga ggaatgaagc ttatgaggag 360

gacacgttga gagaagaagt tgacagtcat atcaagccag cgggtgtggt tctaaaggat 420

ttaagccagg cgaagatgaa 440

<210> 4216
<211> 452

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-C7

<400> 4216

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tttgtccttt cccatatgat ctcattcagc gtgagctcaa gagatatcca aatgcggaga 120

tcgtttggtg ccaagaagag gcgatgaaca tgggagcatt cagctacata tctccacggc 180

tatggacagc aatgagaagc gtaaacagag gagatatgga agacattaag tatgttggtc 240

gtggtccttc tgctgcaact gccacgggtt tctatacttt ccatgtcaaa gagcaagccg 300

ggcttgtcca gaaagccatc ggaaaggaac ccatcaatta agaactcttc ctttttaaat 360

ganttctcan actgataang anaaannngga naaaactttg aaatnagaaa ctttggggtg 420

atgcaanaag tgcgaaacaa cactgtcaan aa 452

<210> 4217
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-H1

<400> 4217

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gatcaagatc tctcgagtca gccttgtgnc taactcagtc gaancactcg ttctcccact 120

cactttcttt gatttactan ggctaaaact caatcccata gagcgagtta ccntctacaa 180

actcaccgag tcatctcgtg actccttctt ctcntccatc ntccccaaac tcgancaatc 240

cctcnccctc gtcctctccc acttcctccc actctccggt cacctcaaat ggaacccccа 300

agatcctaaa ncacagatag tcatcttcnc caaatanact gtntctctca nagtggtcga 360

gtccgaagct gacttcncgt atatccgcta gcaaanaact tcgtctggag aatgaattac 420

gtcntcttgt c 431

<210> 4218
<211> 499

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-E3

<400> 4218

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atttgctaat cagctgatgc agagttgtgg attgtcttta ttctacgtca ttggaaattt 120

tgttcattgg cgtaacttgg ccttaatcgg tctcattcca tgtgcgttgc aagttgtgac 180

tttgttcttt attccagagt cccctagact actgggaaaa tggggacatg aaaaagaatg 240

tagagcttca ttgcaaagtc ttcgcggaga tgatgcagat atctctgaag aagccaacac 300

tatcaaagaa accatgatct tgtttgatga aggaccaaaa tcgcgggtta tggatttgtt 360

tcagagaaga tatgctccat ctgttgttaa tgggtgtggg aacaatgcct cctacaaaca 420

actcccctgg gaagcctcaa ggacttaang ttactaatgt tccggtaacc ntattttgat 480

aaaagggagg ggtttccaa 499

<210> 4219
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-E5

<400> 4219

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atggcccatc ctcggcaatc tacccgaact attcatgact cgtcctaggt ccaaatattt 120

ccgccttgcc atgaaagagc taaaaacaga tatagcatgt ttcaactttg ccggcatccg 180

tgccatcacn ataaactccg acgagatcgc tagagaagcg tttagagagc gagacgcaga 240

tttggcaaga ccggcctcaa cttttcatca tggagacaat cggagacaat tacaaatcaa 300

tgggaatttc accgtacggt gaacaattca tgaagatgaa aagagtgatc acaacggaaa 360

ttatgtccgt taagacgttg aaaatgttgg aggctgca 398

<210> 4220
<211> 418

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-E6

<400> 4220

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actccggtat cggtccttgt agcttcatcg gagtaacctg taattctaga ggcaacgtta 180

cagagattga tctctctcgt cgaggtttat ctgggaattt tccattcgat tcggtttgtg 240

agattcaaga gtctcgaaga aaactctctc tcggattcaa ttcactatct ggaataatcc 300

ccagcgattt gaaaaactgc acgagtttga agtatttgga tctcggcaac aatttattct 360

ccggtgcttt ccctgagttc tcatctttaa atcagttaca gtttcngtac tcaacaac 418

<210> 4221
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-E7

<400> 4221

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attcatcatc atcgttatca tcaccatgtc actgtttcta aaagacgatt cgattcaaat 180

ccgtgaagta tggaacgaca atctcgaatc agagatggct ctgattcgag aagtcgtaga 240

cgatttccca ttcgtagcga tggacacaga gttcccagga atcgtgtgta gaccagtggg 300

gaacattcaa aaccaacaca agagtancac tacgaaactc tcaanacaaa cgtcaacata 360

ctcaagatga ttcagcttgg actcactttc tctgatgaga aaggtaacct cccaacttgt 420

gggaca 426

<210> 4222
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-049-Q1-E1-E9

<400> 4222

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aagaatatat ctaatctatt aacttctttg tgttttacca ctctcttaat attagctccg 120

gtggttatat gcactagaca acaccggttc gatagcccga aaagaagctt gttggccaac 180

gagcaagatt tagtgacagg tttgcctgga cagcctgatg tgagtttcag acattatgcc 240

ggatatgtcc ctgtcgatga atccaacgga agagctatgt tttactggtt ctttgaggcc 300

atggatctcc cgaaagagaa acctctagtc ctctggctta atggaggtcc aggttgttct 360

tctgtgggat atggggcaac acaagaaatt ggtccttttc tcgtggacac caacggaaac 420

ggacttaact ttaatc 436

<210> 4223
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-F1

<400> 4223

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gctctgtaaa ttggagaagt tttgttagag atcaaatggc tgggatttgt tgcggtgttg 120

ttggagagac tgaaccggcg gcaccggttg attcaacttc tcgagcttct cttagacgga 180

ggttagatct acttccgtcg atcaaaattg ttgctgactc cgccgttgct cctccgcttg 240

aaaactgccg taaacggcag aagcgtgaga cagtagtgct ctcgacgtta ccgggaaatc 300

tanatctgga ttcgaatgtg aggagttgag aataagaagg ctanatcagc ggttacnaat 360

tcaaattctg ttacgggaag cagagaattt cctttcccga tgtanctaaa natcgggaac 420

gaacgtcggt tt 432

<210> 4224
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-F2

<400> 4224

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nnnnnnnnnn nnnnnnnnnn nngtcgtatt ggtgttacag ttgtacacga ttcatcagcg 180

tttgggaaga tcaagacgca aacgctggag tcttatgtcc ttattgcaac ggtggattca 240

tcgaagagat tgaagattct tctaattcca ccgtcgcggc gattccggct tcgactccgg 300

aagttagatc ggttgaggaa acacatagat ctataattag acgtcgtaga tctaatcgcc 360

ggacgtcctt taatccggta atcgtcttac acggcggagg aggaaggagg agcggtgaga 420

gagttgagaa cgaagaaggt gacggagcta ctagagaacg acgagcttat gaagtttta 479

<210> 4225
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-F3

<400> 4225

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ttgtcctcag atttancgct aataatcctg gtgtanggct gttccattgn cacatggntg 120

cacatttacc atacgggatt atgagtgctt tcatagttca aaacgggcca actccggnaa 180

cgagcttgcc atctccaccg tcgaatcttc cgcaatgcac tcgggatcct acgatctatg 240

actctcggac gactaacatt ganttgtcat actaaangta anttaggttc gttttccatt 300

tttaaatatt gnccgtacat ttacannttt cacatttttt gggaaatcaa tggttccata 360

atgtgttgca cacagattgc cctcaataan tgggcgnttt caaccntcca aggcgaaacg 420

ggaanaag 428

<210> 4226
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-F5

<400> 4226

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnncgaga aatcagacgg 120

cggagaaggg aaggcgtcgt gggtggggaa ggacgggaag gtgtaccata gccacgatgg 180

actcgcacct cactcacacg aacccatcta ctctcctggc tacttcagtc gccgagctcc 240

tccgcttcac gaccgtaact tctctgagag agcttttacc gtcggtattg gcggtcccgt 300

tggcactggg aaaacggcat tgatgcttgc tctttgtaga ttcttgaggg acaaatatag 360

tcttgctgct gtgacaaatg atatattcac gaaagaggat ggtgagtttc tggtgaagaa 420

tggggctctt cctgaag 437

<210> 4227
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-F7

<400> 4227

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ctctcccaaa ataatagaca gtggcttgaa tcagaagacg gtaaaggcat cttctccaac 120

taatcgggct ttattctctg aaactgatgg agcacgagaa tcaaaagcac ctgcagattc 180

gcatcttcca tcttcatctt caccttcacc gggctcatcg aatttgtcac cctctttgaa 240

ctctgggagc gaggccattt ctactccaaa cgtggtanct aatagctttg atgcagcgtt 300

ggctantgag aacgaagtaa ttgtaaatga aattgtccat gacaatanca ntagttttgc 360

tgatagcctc gacnctaaca ctggggatac aagcaacttc 400

<210> 4228
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-G1

<400> 4228

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tacattagga gaaagtataa gcatcgactg tggatcaacc ggatcttacg tggactccaa 120

caatgtaaca tgggtcggag ataaaggctt cgtcaccaac ggcgagccca tgaagattcc 180

ggacgttgtc aaaaagccaa tcaacactct ccggtacttc ccaactggtc aaaccaactg 240

ctacaccaac attccggtga caaaaggcca agaaaaccct cgtgaggacg aagttttact 300

atgagaacta cgacncgaag ttctcgccgc catcttttga tgtgatttat gacgggaaac 360

accgtgattc caatggnaat taacgagtcc tttgccaaat gaatgaagaa acgttccaat 420

tccccggang gtgatatatg ttccggga 448

<210> 4229
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-G10

<400> 4229

acgcgnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aaaagctgaa cacaaagatc 60

tattctttca ctaacacatt ancaagtttc tgcatttgta gatatgatcc ttttctaaaa 120

cttttaacca cttctttctc cattcccagt tcttagaaag agtcaagagc aatgaggaag 180

cttttcttgt tanggtttat agttgcagga ctggttcttg ggaatgaggc aaatgggtat 240

ttagagttca atgtcactga attagatcgc attgaggatt taaagtttgg tttctccaan 300

tttagttcca atttcaatcc attaatggtt ggtctcacac ttatcagagg agctggttct 360

aaaggagctg tttgtttgga tggtacattg cctggatatc acttacatcg tggacatgga 420

tctggagcca atanctggtt aattc 445

<210> 4230
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-G4

<400> 4230

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aattattacc aaataagatg tttagaaacc aagactcgaa atacttgatc ccggtgcaga 120

aagaagcgcc accggtgaca actttaccga tgaaagcttc aacggtgaaa tctccacaca 180

actgtgaggc cattctcaga gacgcagatc ctccgatctc tctctcctct gttaatctct 240

ctgaacagct acggtctggt gttttcttga aacccaagaa acagatcaaa tattgggtgg 300

acgaagagaa acagcaactg cttcatgctc tttgcaaaag aaacctctcc tataacttgg 360

tcctgatgac gtcaactatt ggacttgggt taccgaaaaa gagtcaccaa acgaagaaat 420

gtggaaacct gtggggaatt gaaaa 445

<210> 4231
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-G7

<400> 4231

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnncat 120

ctgcttacgc tcgattcgtc tccctaaacc catcttcaac gagtctaatc tccgatggaa 180

tcgacggtgg ttcaaatctc gccggttccg gatcggttat caagtcggtt gtttcggctc 240

cggctgagga aaaggaggaa gcttgtgagc agacatacgg ggttaaggcg ttgtacnaag 300

aacgctcctt gggaaacgtg tttcctgatt tttggnttaa tggatttctc aatggtttaa 360

cgggctggcg acgtaacctc ctcctgccng gaaagtgagc ttcnttcctt gaagatcctt 420

gggacctggg aattgtcggn ggtttgtttc ttccgaa 457

<210> 4232
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-E2

<400> 4232

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ccattcattg tttatgcaca acatgtgtat ccgacnaact cangaggagc ttgagagctt 120

tggtactccg gnttttacta tatacaatgc ngggcagttt ccatgtaatc gttacactcn 180

ttanatgact tcgtccacta gcgtatacct taatctggct aggagggaaa tggttatact 240

tggtactcag tatgctgggg aaatgaagaa nggtcttttc antgtgatgc attaccttat 300

gcctaagcgt cntantctct ccttcagtc cgggatncaa tatgggaaaa aggatgggaa 360

aatgtttgcc ccccatcctt tggacttttc aaggtacccg ggnaanacaa acgcctgtcc 420

taacgggtnc acaaccatgg tatccttatt g 451

<210> 4233
<211> 353
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-H5

<400> 4233

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gtatttaata aggccttgtg atggtggtgg ttctattatt cacattgtcg atcaccttaa 120

tcttgaggct tggagtgttc cggatgtgct tcgacccctt tatgagtcat ccaaagtcgt 180

tgcacaaaaa atgaccattt ccgcgttgcg gtatatcagg caattagccc aagagtctaa 240

tggtgaagta gtgtatggat taggaaggca gcctgctgtt cttagaacct ttagccaaag 300

attaagcagg ggcttcaatg atgcggttaa tgggtttggt gacgacgggt ggt 353

<210> 4234
<211> 374
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-047-Q1-E1-H7

<400> 4234

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ctgtctttat aaccaggatt tggtaattcc cattgtttca tgggcaattc ttgccgtgga 120

tctttcaagg acaatctcga ctaaggcgat ancaataagc ctgaagatta ntctaaaacc 180

tctaccacca acttgtcttc taattccgac cattcaccga acgctgcaga catcattgct 240

cangaattct ccanagacaa caacagcaac aacancagca angatccagc tcttgttant 300

cctttaagag aaccaatcat gaggcgtaac ccagacaggt caagcttact atgttccttg 360

gtcataagac acca 374

<210> 4235
<211> 362
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-H8

<400> 4235

attcaaaaac tcatctctct ctatctctat ttctctggtt ccatagctca ccgtcgcatc 60

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ttgtagcagc tactgtattt tgggcttctc atttgatatt ggggaaacga ggagtagagg 180

acgatggaaa atctgatctc tctggttaac aagatacaga gagcttgcac ggctttagga 240

gaccatggag actccagcgc tttacctact ctttgggatt ccttgcctgc gatcgccgtc 300

gttggtggtc agaagctcag ggaagtcttc agtcctggag agcaatcgtg gggaaaggac 360

tt 362

<210> 4236
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-A12

<400> 4236

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gtataataac aacaatcagc aatctttttg gcagttcagc gaccagctga gagttcagac 120

accgaatcta gcgaatctgt ctctcaacga ctcgatctgg agcacaaact ctgtcttcaa 180

agagcgtcga aacttagaca tagccgccac caccgacaag aacaacaanc agatcgacta 240

ttatcagaag aagacaactt ccgacaacat caattccaac tggaactgga agtcttctgg 300

ttcanacaac gacatgggtt taggattcgg acctgtgggt tcaaaatcca ccgtcgattt 360

aaacccaatc gacanattca actcaccgtt caacgacacg ttggna 406

<210> 4237
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-A4

<400> 4237

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actcaaaaca tttgtctgat ccattaatcg gattcagata caatgacaag ggttacacgc 120

gattttcggg attcattaca gagagatggt gttcctgcag tatcagcaga tgtgaaattt 180

gcttcaagta gatttcctaa ttatagaatt ggagctaatg atcaaatatt tgntgttaaa 240

gacgatccta aagtgatgtc catgaaagag gttgttgcgc gtgagacaag cgcagcttat 300

ggaccagcag aaacgtttgt ctgttcgtga cctcgctcat aaatttgaga anggtttggc 360

tgcagctgct aaagctatcc ngangaggca aaactcaaan gaagcaactt cgntgggaga 420

aac 423

<210> 4238
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-A5

<400> 4238

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aatcgccgag attgttcgag cctgaataat caaaatggtt gtgcttgctg ctgccattgt 120

ggtcaagtct gggaaagtga ttgtttccag acactatgtg gatatgtccc gtatcaaaat 180

cgaaggtcta cttgcagctt ttcctaaact ggttggaatg ggaaaacaag catacctata 240

tcgagacgga gaatgtgcga tatgtttatc aagcctattg nagctctgtt cctgnttctt 300

gttacancta aagcagagtt ancattcnag aaggacntgg gccannctta ctttgntcnc 360

naaanttggt acctgagtat ccagggtcnt gnaggagtan aaaggatttc caagggnatc 420

tt 422

<210> 4239
<211> 363
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-A7

<400> 4239

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aggcaacaat gcttggccag cccatgagta tggtattgcc tggtgttgtt ggattcaaac 120

ttgccggaaa aatgcgtaat ggtgtaacan ctactgattt ggttctaaca gtgactcaaa 180

tgctgaggaa gcatngcgtt gttggaaagt ttgttgagtt ttatggtaac ggcatgagtg 240

ggctgtctct agctgacagg gcgacaattg ccaatatgtc tcccgagtat ggtgnaacca 300

tggggcttct tccctgtgga tnaatgttac tcccacaant atctcaaatt gactgggaan 360

aag 363

<210> 4240
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-A8

<400> 4240

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caaaacttca cgattcaaga tctgtgtgtg gcagaatttg aatcgaagca taggatcaat 120

ccggtaagca gccgtaactt gcaatcgatc gccgatctgg atccgttaaa ggatccctcg 180

cagtccttga agatatcggc gtcctccgcc accgggaaca ggatccgtta ccgttcacct 240

tccgcttctg agctattgga gtctggacta gccaccggat tatccggtaa ccattctcct 300

acttccgact ctcatcaggg acttgtgtct atcgacggag gaaaaatgac ggcgaagcga 360

gcgatcggac ggnacgaatc ccttgctgac aaggnccacc gacaancgtg ggcctc 416

<210> 4241
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-A9

<400> 4241

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ctcaaagcta tctgttacaa gcctggctct ctccagttac tcgatcagag gaagcttcct 180

ttagagacta tttacttaga gattcgtgat gcttcagatg gatggagtgc tattcaggaa 240

atggttgtac gtggtgctcc tgctatagct attgctgctg ctctttcttt ggctgttgaa 300

gttttcaact ttcatggttt tgatggatca gcttcagatg ctgttgcttt tcttgagaac 360

aagttggatt atttagtgtc aagccgtcca acagcagtta atcttgcaga tgctgctttg 420

aaacttaaac atgttatagc aaaggccttg gctactgcca c 461

<210> 4242
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-B10

<400> 4242

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tatatttacg atccacgatc tctcttgctg tttctgtctt catcgtgacg aaaatggctg 120

ctcgtatcgg gatcttctcc gtcttcgtag ctgtattgtt atctatttct gcattttcct 180

cagctcagga tctccagatc gtaaatgccg agcgaaggat tgatttaagc tcacatatcg 240

tgaaggcctt cttgactctc aaggttgaaa atattgggaa agatcctgct gcagaaatgc 300

ttcttgcttt cccaactaac ccagntcang anttggggca angggaaaan gccctggnaa 360

ctacgggnaa gaangaagaa gaaacctaat tggcaataag atgtaaaac 409

<210> 4243
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-048-Q1-E1-B11

<400> 4243

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aagaagaaga ggaagaatgg ctacatgtcc tcctttcgat ttctcgacca aatattacga 120

tggtgacggc ggatgccaga ggcagagcag cttcttcgga ggcacgacgg tgctcgatca 180

aggcgttggc tacgccgtga ttcttggttt tggtgctttc tttgccgtct tcacatcttt 240

tttggtatgg ttagaaaaac gatatgtggg agctcgtcat acatcggaat ggttcaatac 300

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gggctgcgac catactgcaa agttcaaacg tag 393

<210> 4244
<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-B12

<400> 4244

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atcgagccgg gtcaatccga tgtatggagc tcgattttgt ctgagaagaa gaagactgaa 180

tcgagcaagg acactgttcc tccaccgtat gttcatccat tgatgaaacg tgcgagttcc 240

ttgagtgaga aaagcctcga gatttgtact gagagtctcg gatccgagac tggttgcgat 300

ggtttctctt cgcatgcatc gtcggagact ggagatgctg agatngagat tcatgatgaa 360

gaccaatctc cgttgttaac gtgacggga 389

<210> 4245
<211> 411
<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-048-Q1-E1-B6

<400> 4245

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tcctttaagg aaactctatg gctttccccc taccacattt tccggtacgt ctttaaatca 120

tcttcgttta aaggccacta atactttaaa gggtgatgat caagagagta ttcgcaagtt 180

caagaagtta ccaacttccg aatggactca ctacttccac tcgtttgtcg tcgatgtctc 240

ggaaatggat gcgcttagga atgagatcga tgcactaaag ccgaaagtga aaaacacaat 300

catgtcttcc caaggcattg actcgacaaa gaagaagaat ccttatgata tatatgttgg 360

tgagccttgg ccttgcacat cattttgagg aagagatcta tgagacccaa a 411

<210> 4246
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-B7

<400> 4246

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attagcgacg tgattttacc taaagatatg ttcatttttg gaccactttt aagggatttt 180

catgtcttac tatctcttgt tttctgattt ccctagatct gtatgaaaag ataccaagcc 240

atattgagcc aaagcttctt ccttttcagc gagaaggcat agagtatgtc agccatatgt 300

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cttttgcctc attattgggt ctccaccttt ctcgcaatgg ntt 403

<210> 4247
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-B8

<400> 4247

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aananagatt cataggatct tttgcttgac aatgaaagaa ggaaaggatg ggtttgttcg 180

agcagatcag attgatctaa aaagcttaga cgagcaacta gagagacact taagcagagc 240

tttgacttta gagaagaaca agaagaaaga tgaagaagac acaaccgccg tcgccatcgg 300

tggctctgct tcttcttccc ctgtcactct aaacggcggc ggatttgttg gcaagaggaa 360

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ggtgggactt ttgggg 436

<210> 4248
<211> 373
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-047-Q1-E1-H4

<400> 4248

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ctctaaattt anntacccat tttttccgat aaatttttgt tgaggaagaa tttttgttgt 120

aaagagagtt taattaaatt atgccttcaa nagaagatga gctgtttccg tcaacgccgg 180

gtaaattcan aattgaccgg tcaaaccgtc atgctccacc gttgtttcgc ttctacnagc 240

accatgtttc tttgggcnct cttcctcatc ggtctcancg cttcttacnt gagtttccaa 300

agcttcgtcg attccggtag ccgttatcna accgcttcct gggggggggca tccaatgggg 360

aaaaacaggg tcc 373

<210> 4249
<211> 361
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-D4

<400> 4249

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attcaagttt ctgtcttccc ataggcaaag ccaagattga acgagaagga aaggacgtaa 120

cgatagtaac tttctcgaag atggtcggtt tcgccctcaa ggcagctgag aagctcgcag 180

aagagggaat aagtgctgag gtaataaatc ttcgatcaat ccgtccgctt gaccgagcca 240

ccatcaatgc ttcagtgagg aaaacgagta gattggtaac agttgaagaa ggtttcccac 300

aacatggagt ctgtgcagaa atttgtgcgt cggttgtaga agagagcttt tcgtacttgg 360

a 361

<210> 4250
<211> 357
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 4250

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cgattcaggt accaccaatg ccgccgccgt agctccttct tctccggcgc gtcatcacca 180

cgctcgatct tcttccgtca ctaatatgtc taacgtcaaa cgagctcaaa acgttgctgc 240

taaagccgct gctcagagac ttgctaaagt catggcttct cagaccaaca nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnc 357

<210> 4251
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-047-Q1-E1-E10

<400> 4251

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tgctctgcag gtggtctagc agttatttta cgctgtgacg aattcagaaa cttgttttct 120

ggatggacca gagttaaatg cttaagtgat gcaggcttgt tcttggncac gcctgatgta 180

tccggtggac acactataag gaatttatat aacggcgttg tgcanttgca gggagtgaag 240

aacaatttgc cacatttatg cactaaccat ctcaatccaa cctcttgttt cttccctcaa 300

aacttgatca gtcagatgaa aactcctctt ttcattgtca atgcagcata tnatatttgg 360

cangattcaa agcagtatcn ctccncccga gtgcagattc tantgggtaa tggg 414

<210> 4252
<211> 390
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-047-Q1-E1-E11

<400> 4252

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cgctgaaagt gaaaagttca tctagcttta gttttctctt ttcatggttt ccgcgggaaa 120

agttcgtctt ttttgaagcc cttttgacac aaaagaccag aacaagttga agaaatatga 180

atacaacctc gacacatttt gttccaccga gaaggtttga agtttacgag cctctcaacc 240

aaatcggtat gtgggaagaa agtttcaaga acaatggaga catgtatacg cctggctcta 300

tcataatccc gactaacgaa aaaccagaca gcttgtcaga ggatacttct catggggaca 360

gaangaactc ctcacaaggt ttgaccaaag 390

<210> 4253
<211> 358
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-F1

<400> 4253

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gggagctata caaagctcaa gaagagcttg tgaaggttgc taagaaatat ggagtgaagc 120

taactatgtt ccatggccgt ggtggcacag tcggaagagg aggtggtcct actcatcttg 180

ctatattgtc tcagccacca gatacagtta atggctctct tcgagtcacg gttcagggtg 240

aagtcattga gcaatcattt ggggaggcac acttatgctt tagaacactt caacgtttca 300

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<210> 4254
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-047-Q1-E1-F11

<400> 4254

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aactcgtgtt gtatccaata gattacttta atattgatgg tggatttgat agatgaaagt 180

tacatgtcta aggagcatct anacacggtt atagattgga taccatcaat gangaatctt 240

aggctaaaag acatccctag cttcagacgt accactaatc ctgacgacat aatgctcaat 300

ttcatcantc aagaggtgga gcantcnaaa cgcgccagtg atcattctca atacgttcga 360

tgatcgtgat catgatctta nacaancnat gcaatctatt ttattacctc cggtttatan 420

gattggganc ggctcccanc gccnagccag accagggaaa 460

<210> 4255
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-047-Q1-E1-F12

<400> 4255

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ccatgatctc tacctttact ccatgtctca acttcatcan cggaagcagc ggcggttccg 120

tcactcccac cgccggctgc tgcgactcct tgaagacgtt gaccaacact ggcatgggct 180

gtgcttgcct catcctcact gctaacgtcc cgctgcctac tggcttcatc aatcggnntc 240

tggcgcttgc nctacctcga gcctncaaaa tgggcggtgt anctattcaa tgtnaanctg 300

cggggacncc tctannagct ccaggtcagg ttccattttt gattgctcca ccacctcagg 360

tgtctgcttt tancccggga gcgtcnaagg cggcggggac aacaccaaca caggnacctg 420

c 421

<210> 4256
<211> 357
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-F6

<400> 4256

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atctctcttt ctttgtcttt aacaagaaag acaacaagta cctctcaatc caagatgttg 120

aagttaagcg tttcagttct tctaaaacgg tttggggatt gccaaaagct atgtcgcttg 180

aaacattcac tgaccctgca aagggattta tcgtggaagg agaaccatgt gagtttggtg 240

ctcatgtgaa gattgcttca tcacccgtcc ctgttgatga gaatctccct tttcacaaat 300

tctcttggag cattcgtgat ttctctgttc tgaaacagaa atgattgcat atctaaa 357

<210> 4257
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-F9

<400> 4257

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tttaacggtt ctttaaaatg atgggtattg gtcaaagaag ctcttttcaa tctgggaagg 120

ttactgggta aatgttggta cattggctca ggttttataa agtttggtga tcattctcag 180

tttcaagttt gatcaaaatg tggggctttg cgtcgaatgt cattggaagt atggggttaa 240

agaagtcccc taaagattca gctcaagcat cctctcaatg ctcagatgat gaggtttcaa 300

atattagcag ggatgaagag ggattagaat gtcccatatg ttgggaatct ttcaacattg 360

ttgagaatgt tccttatgtg ttaaggtgtg gtcatactcc ttgccaaaat 410

<210> 4258
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-047-Q1-E1-G12

<400> 4258

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nnnnnnnnnn nnnnnnctgt aaaaatcaaa gctttttgga atctttcttc ggngatgata 120

tttcttcacc ggcgcaagct tctcttgagc gtgattcanc actgggtttg catttttcc 180

tggtgggtat tcttcaaatt gttcaaagct ccgacctttt cttccttaga atctgattac 240

tggnancttg aanctgggag agactccagt ttatatggtt tcaancatcg ttgagtcaan 300

cattggagtt gtgtagaaga aaggnttggg ttttccgtcg ccgtntaagt ggttttgggg 360

tttggtagga tttggtgtaa tcagggaaga taanaga 397

<210> 4259
<211> 364
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-G2

<400> 4259

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gtggcagtgg aagtaacaag aagtctaaga agaataataa tccgagcaat cagaaaaccc 120

taggcgcggc atggggcgct gcttcttctc gttcttcttt ccggtcttct cctttctccg 180

atttcggaag ttacatggaa gtgaaaaata ggaaacttca gaaccaattt gagactgagg 240

cttctgctgc ttctcgtggt gtttcgggtt ctgagaaact tattttccaa ggggtttcaa 300

tctttgtgga tgggttcact attccttctc atcaggagtt gaaagggata catgatgaag 360

tatg 364

<210> 4260
<211> 359
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-047-Q1-E1-G6

<400> 4260

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gactcgatct ttaatcgaag acgagtcaac ggaggtttcc gcgttannnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnat 180

agtggtagtt ttggagattt gttctcatgg cctgatcttg gtgggattgg ttcgagtgga 240

gtcgtgaagc tttgggatca tttagatatc gatggcgatg atcatgagaa tgttgtggca 300

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<210> 4261
<211> 355
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-047-Q1-E1-G7

<400> 4261

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atgcanaagg agctaggaag cagaaaatga ttgaactgct gaaatctcat ggtggtttgt 120

cttatggtca aaacggaagt cactttgaac caaagcctgt gccaccacca attccaaaga 180

aatgtgactg ggaaattgaa cctgctgagc tggatttttc aaatgctgca atgattggaa 240

agggttcatt tggtgagatt gtgaaagcct attggagagg aacaccggta gctgtgaaac 300

gtattcttcc ttctctttca gatgatanac tggttatttc aggacttcag gcatg 355

<210> 4262
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-G9

<400> 4262

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gtatctgcgc aaggccttgg ttgcatgggc ctctccgctt tctacggtgc tcccaagccg 120

gaaaatgaag ccatcgctct catccaccac gctattcact ccggcgttac tctccttgac 180

acctccgata tctacggccc tgagaccaat gaagttctcc tcggaaaggc tctcaaggat 240

ggggtgagag aaaaagtgga acttgcgacc aaatttggaa tcagttatgc agaggggaaa 300

agagaggtca gaggagatcc tgaatatgta agggctgctt gtgaggcaag tttaaagagg 360

ctagatattg cctgcatcga tctctattat cagcatccgt gtcgatactc gtg 413

<210> 4263
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-047-Q1-E1-H10

<400> 4263

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gctttgcttt tgacatcgcc ggctatgaag cagaagccgg cggtgataac ttctcctcgc 120

cgtggttctt ctccttctcg tcgtcttcga gtttcttgtg ttaccacaaa ccctgctagg 180

aagaaaaacg aaacatgcaa tcattttcga cctatcaaag aagtaaataa ccaattaaca 240

cacacaatac cacaggagaa gcttgaggat cttcaaatca atggaaaatt gggcagaaca 300

aaaactacta ccttatctca aaccggtaga agattcatgg caaccacaag acttcttacc 360

tggcgccaga ngaacgacga cgaattctac gacngggtaa aagaga 406

<210> 4264
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-047-Q1-E1-H11

<400> 4264

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acggngacgc gattttctga ttattagggt ttaagatctc gangttgagg agagcttgaa 180

aagttgtttg tcaacatgga gcgcaagacn antgacttgg agcaaggatg ggannatatg 240

cagactggga attacnaagc tganaacgga ttctggaagc gattgaatga gccagnantt 300

gactctggag caatatatga tgctttatac gactatctac aacatgtgca cccangaaac 360

ctcctcatga ttactcacag caagctttat gacaagtatc gggaangaat tgaggg 416

<210> 4265
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-047-Q1-E1-D1

<400> 4265

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gtccgcctaa acgcaagttt caaatcgcta aaaccaacgt ttgaacacgc aacgattact 120

ctctcagccg cgtgactttt tttccaagta gcgtctgcgt ttggcaaagt cctccactta 180

caaagctttc ctccttcaat ctccgccgca acaatctctc cgccgttctc cgccgcacca 240

tgtacataaa ccatatctcc caccgcgttc aacactatcg acgttaacgg ccaatcagaa 300

ttaatccctc ttagtttctc caaatacgtc tcaggcatag atccgatcga ctcgaatttc 360

aaatgcgatt cgtcaagaat ctataacttc ccacagttcg attcccgtcg gattat 416

<210> 4266
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-H3

<400> 4266

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tctccgacgc ctggatcgtg atttgattcg aactttcaca taagatggct atggtagatg 120

aaccgttgta tcccattgct gtgcttatag atgagcttaa gaatgatgat attcagcttc 180

gtttgaactc gatccgtcgc ttatctacta tagctcgtgc tcttggagag gagcgtacaa 240

ggaaggagtt aatccctttt ttgagtgaga ataagtgacg atgacgatga ggtgcttctt 300

gcaatggctg aggagttagg agtttttant ccgtttgttg gaggaattga gtttgcgcat 360

gttcttcttc ctcctttgga atctctatgt actgttgaag aagacntgtg tgagagaaaa 420

aactgtggaa tcccttgtaa gaatgg 446

<210> 4267
<211> 506

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-H5

<400> 4267

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cctttgccga cttccttctg ttaatcatgg cggntccgga ngatgaatct tccgctcagt 120

ctcaatcatc acctgccacg gcggntccta cgcctcctcc ttcctcttcc ccttcctctg 180

ctggggatca ctacctanct anagtgcatc ctccgcccca ncgtcgttct ccagnttgct 240

tatggcnaat tccgctcccc ttcctcncgc aanatagttt tcggnaagga gacctgcata 300

naattgggtg gttattggtg aanacgggat tgttgantcc gtgtgtgaac aagtatgtat 360

ttgggaacaa ttaacggatt tgggctgtca tacctcatag tagcaagctt tantcgaana 420

atttgcaaga tgggaaaana gancttctgg gctggttctt ttctgaatcc tggaaaaagc 480

tctcaatttc tctcaattaa ncaaat 506

<210> 4268
<211> 330
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-H6

<400> 4268

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aagtctacgc taacgctagt gtgttttttc acacatgtgt tagttcttta aatatgagat 180

gagtaattgc ttttgagttc gattatgata aatatgttga ccgtcaacat aagaaacctt 240

aaaacgttgt cgtttcgttt ttattcatcc cggtttaatt cagtttgggc ttggcgtnna 300

aaaaaggann tcccggntga nanaataagg 330

<210> 4269
<211> 372
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-H9

<400> 4269

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cagctccatc tccagaaaca tgggtgcagg tggaagaatg ccggttccta cttcttccaa 180

gaaatcggaa accgacacca canagcgtgt gccgtgcgat aaaccgcctt tctcggtggg 240

agatctgaag aaagcaatcc cgncgcattg tttcaaacgc ncaatccctc nctctttctc 300

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<210> 4270
<211> 357
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-047-Q1-E1-A1

<400> 4270

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cnatctctct gtcnaaaagt ctttacttta aaacaaacag tgacatgaaa aatcaaagct 180

tcgatacaat ctcaggatgg atttgagtat cgcttaatga agttttgatc tttgggttta 240

agttctacaa cagagtattt cgaggattgt atatattgaa gggnttttgt tggttaaggg 300

ataatgatac cggaactggg gagaanaccg atgcatagag gggaacgaag attcntc 357

<210> 4271
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-A6

<400> 4271

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tgaagccata accgcgatta atagctctag ctacgatctg gtactcatgg atgtgtgcat 180

gccggtgctc gatggtttaa aagctacaag actgatccgt tcgtatgaag aaactgggaa 240

ctggaatgct gcaatagaag ccggagtaga tatatcgaca tcggagaatg aacaagtttg 300

tatgcgtccc acaaaccggc tgcctataat cgcgatgaac ggcaaatact ttagca 356

<210> 4272
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-047-Q1-E1-B3

<400> 4272

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ttcctgaaga agaaaaagcc tgaggttaaa cactgcacct gggaatcaat ttccttaaat 180

ctttactcaa aagatgaggc nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnngatc cattagatcc tagtggtaac attacaatca aatgggatat 300

tatgtcctgg acggcagatg gctatgtggc tacggtaact atgaacaact tccaaatcta 360

ccggcacata caaaaccctg ggttggacat taggttggac atgggcaaag aaagaggt 418

<210> 4273
<211> 361
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-B4

<400> 4273

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gtgtcaaatc tgtttattct actccgacaa gagaacaatt ccaaaattgc ttgtccacaa 180

aacaattcaa ttctaccctc aaaaacccta taaatctcac cactcataca ctagattccc 240

gagttcacac cgacttttcc gagtcttcat ctccaaattc taagtttcct caacttgaat 300

ttcacaagct tgaagccgat tctcatcgtt aagccaaaat ccgaatccga aataaaacaa 360

t 361

<210> 4274
<211> 359
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-047-Q1-E1-B8

<400> 4274

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agtagcagaa gcttcgatct cagttattat aggcttgtct tgaanangag aggcttgttt 120

cantcngatt ctgcattaac aacgaactca gcgactttga aaagtgatca acgacttggt 180

caacggttct gaaaagaagt ttttcaaagc ttttgctaag tcaatggacn aanatgggga 240

gagttaaagt gaagactggc tcagctggtg tgatcaggac acggtgttct gtcgctggaa 300

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<210> 4275
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-047-Q1-E1-C1

<400> 4275

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agattcaaag gattccgatt cgatcttatt gtccgatctc ggtgtttctc gtttctctac 180

tgtgattatc catgtcctgc ttttgggtgg tatgcaagcg gctccgccga agcctcgtct 240

tgatttcctc aattctaagc ctccgtcaaa ttatgtagcg ggtttgggtc gtggtgctac 300

tgggtttact actcgatctg atattggtcn tgctcgtgct gctccgggat cttcctgatc 360

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<210> 4276
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-047-Q1-E1-C10

<400> 4276

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gccgtcgtca tcctaatcga cgagcttgaa aagatccgtg ctcctctctc cgccgctgtg 180

acagaggaaa tcagcctcgc tactcagctt aaccgtgctt catccgatca aaccaccgca 240

tctgagcaaa aggaagtcac tgatatcccg caggaagtta gcggcggcga tgatggcgct 300

aagttggagg atctggtgaa tttcctctac tttggttcac tcttcgacgt caagtcacag 360

aacgagttca cttcgataat gttgaccaag gactcatgan gagaattgct gct 413

<210> 4277
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-C11

<400> 4277

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ttaaagccac cggtgatggt cgaggagacc acagaagaag aagaggagaa gaagagtcgt 120

gattgtggac gtcaagttgt gagtttaatc ggagatttat tccggcgatt acacggctct 180

aagttggtga agagcttgaa tctctgtagt atcaacgaga gtaaagattc gatttcaatg 240

gagatcaata aatcattcac tgacatggaa ggtgttcagc tttccagcaa agtcggttgc 300

gaagaatcca agaatctttg gatactctga gctttatatc ggaactaatg gtttcagcga 360

cgaactgatc ctcggaagcg gcggtttcgg ccgcgtttac aaggcgtttg ttacc 415

<210> 4278
<211> 353
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-C5

<400> 4278

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cgattgctat aatgtcgatg tctcggctcg gattgttgtt gttcgtcgct atattgctcg 120

tcttgcttca gtcttccact tgtctgatta gttctccaag ttctatcatc aatccttcta 180

aagtcaaaca ggtttcgtcg aagcccaggg catttgtgta tgaaggtttt ttgacggact 240

tggaatgtga tcatctaatc tctcttgcga aagagaatct gcagagatct gcggttgctg 300

ataacgataa tggcgagagt caagtcagtg atgttcgtac cagctccggc act 353

<210> 4279
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-H2

<400> 4279

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atactcgctg agagaatgca tcgattacca caagaatatc tcnaggagtt aannaatggt 120

cttaaggnta tccttgaang aantggtgcn cagcctatan atgagtttat gtttctgcag 180

nagtttgtcc atacgagatc tgatttaact tcaaanacac ttgtcatggc tcaccgagtg 240

cagcttgaag ttcttgtggt tataaacact ggnatccaag cattcttgca cccaaacatc 300

aatctctctc agtcatcact catcgagatc tttgtgtcaa ggagatgcat aaacataact 360

tgccaaaacg aactcccggc tgatggttgt ccctgtgaga tattcgctaa ttaggaaagg 420

cttctgcaac ctgtgcatnt ttgtganatg ttancnaagt tttgantttt gcactccaac 480

anatggccc 489

<210> 4280
<211> 354
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-C6

<400> 4280

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ctgcggcttg ttatcctttg tctcttcttg cattaccgta taacaaaccc agtgccaaat 120

gcctttgctc tatggctggt ctctgtgata tgtgagatct ggtttgcctt atcctggatt 180

ttggatcagt ttcccaagtg gtttcctgtg aaccgtgaaa cctacctcga caggcttgct 240

ttaagatatg atcgtgaagg tgagccatca cagttagctg ctgttgacat tttcgtgagt 300

actgttgacc ccttgaagga gccacccctt gtgacagcca acacagtgct ctct 354

<210> 4281
<211> 355
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-C7

<400> 4281

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ggttgcaaag tcgatgatga agcagttagg ccataccatg gatattgcta ataatggagt 120

tgaagccata accgcgatta atagctctag ctacgatctg gtactcatgg atgtgtgcat 180

gccggtgctc gatggtttaa aagctacaag actgatccgt tcgtatgaag aaactgggaa 240

ctggaatgct gcaatagaag ccggagtaga tatatcgaca tcggagaatg aacaagtttg 300

tatgcgtccc acaaaccggc tgcctataat cgcgatgacg gcaaatactt tagca 355

<210> 4282
<211> 359
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-C8

<400> 4282

tgattttctt gattcgattc tcaagagccc agacgaggat ccagagaagc acaagtatgt 60

tttgcaaagt ggttttgatg ttgtagcacc agatcagatt gcgcaagtgt gtcaacaggg 120

ctcagcagtt gacatgagca atgatgtttc agtgacgggt atccagatta agagtcgcca 180

ggcacaaccc tcaggttata ccaatgacta tatagcgcag ggaaatggtc caagaaggct 240

gcgtctgcaa agtaacttta atggcattaa cacgaagaat cctgagcttc aagctataaa 300

gagagaggct gaggacacgg ttggagaaag tataaagaaa aaggtgtgga aagctaatg 359

<210> 4283
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-F10

<400> 4283

tctctttcat tttatatacc cttttcctct ctttctccaa atctctgaaa attttcacca 60

agaatctctg ttctttttt caccagaatc tctctgttta aaataatagg tgatgatgat 120

ggatgagttt atggatctta gaccagtgaa gtacacagag cacaagactg ttatcagaaa 180

gtacactaaa aagtcgtcta tggagaggaa gaccagtgtt cgtgactcgg ccaggttggt 240

tcgggtctca atgacggatc gtgacgccac tgattcatca agcgacgagg aagagtttct 300

gttccctcga agacgtgtca agagattgat taacgaagat caagagtcga gcctagcaag 360

ctcttccacc ggcgacgtct ctgcttctcc gacgaaggac cggnaaagaa tcaacgtt 418

<210> 4284
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-F2

<400> 4284

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gaataatctc cttctcccgt tgaatcgggt cgaaatagtt gaactttaag ccaaacccta 120

gcttgaggag gaagaggaat ggtcggcgtg atgaacagat tgaggaatct ggacgcttac 180

cctaaaatca atgaagattt ctacaggcgt actctttctg gtggtgttat caccctcgcc 240

tcttctattg tcatgctaat tctcttcttc tccgagcttc agctgtacat tcacccggtt 300

actgaagact cagcttcgtg ttgatacatc aagaggagag aagctacggg attaattttg 360

atgttacatt ccctgcgctt caatgttcga ttattaagtc ctgattccat gggatatcag 420

tggggagaag caccttgatg tgcgacatga 450

<210> 4285
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-F4

<400> 4285

acgttagccg ccgttaccgg gcaaaattcc ggatcgaccc acgcgtccgc ttcaatcggc 60

acaccaccaa acccgaatat gttctttact ccaccaggtt ctgatagagg agggcctcct 120

aactttcctg ggtccaatat ttctggacaa atgggacgtg gaatgccatc tgataagact 180

tcaggggat gggttcctcc tcgaggtggt ggacctcctg gtaaagctcc ttctagggga 240

gagcaaaatg actattccca gaactttgtg gatactggaa tgcggcccca gaatttcatt 300

cgggagctgg agcttaccaa tgtggaagac taccccaagc ttagaagagc tcatacagaa 360

gaaggatgag attgtatcta attctgcttc tgcaccaatg tatctgaaag gcgacttgca 420

tgaagttgag ttatctcccg agttattttg gaacaaaagt ttgatgttat tcttgttgac 480

ccancatggg 490

<210> 4286
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-F5

<400> 4286

ccgttacgcc ngccaagtac cggtccagaa ttcccgggtc gacccacgcg tccgggacag 60

catcaggagg tgatccttgt ggccaaaact ggaaaggcat aacttgctct ggctctcgag 120

ttacacaaat aaagttacca agtcttggac tttctggatc acttggattc atgcttgata 180

aattgacttc tgttactgag tttgatatga gcaacaataa ccttggaggc gatttgcctt 240

atcagcttcc tccaaacttg gagcgattga atcttgctaa taaccagttc actggatctg 300

ctcaatattc catttctatg atggctcctc ttaagtacct caaccttgct cacaaccagt 360

tgaagcagct agctattgac ttcacaaaac tcacctctct ctctatattg gacctctctt 420

ccaatgcttt tataggggtc tctcccaaac acttgtagct ctcttacgag tgcaaaatca 480

<210> 4287
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-F6

<400> 4287

acgcgtccgg cccatcaata aagaaaatac aaaccatggc aattccaaaa gctcactact 60

ctttagcagt tcttgtcctt ctctttgtcg tcgtttcgag tagccaaaaa gtctgcaatc 120

cagaatgcaa ggccaaagaa cccttccact gcgataatac tcatgcattc aaccgtagtg 180

gatttcccaa aaatttcact tttggtgcag ctacttcggc ttatcaaatt gaaggtgcag 240

cacatagagc acttaatgga tgggactatt tcacgcatag atatccagaa aaagtaccgg 300

atcgtagttc agcagatctt gcttgtgatt cgtatgatct ttataaggga tgatgtcaaa 360

ctgctaaaaa gaatgaatgt tcaagcatac cgtctcctcg atagcatggt caagggtctt 420

accaaaggga agactgactg gg 442

<210> 4288
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-F9

<400> 4288

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cgggtcaatc ccaaaaggac tattcggatt acccaaatta actcaagtgg agctccaaga 120

taattatctc tccggagagt taccagtcgc cggaggtgtc tctgttaatc ttggtcagat 180

cagtttatca aacaaccagc tctcaggtcc attacctccg gcgatcggga acttcaccgg 240

cgttcagaaa cttcttcttg atggaaacaa gttccaaggt cctattcctt caagaggtag 300

ggaagcttca gcagctctcg aagattgatt tcagccacaa cttgttctcc ggtcgaatcg 360

cgccggagat tagtcgttgc aagctcttaa cgtttgttga tctgagcana aac 413

<210> 4289
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-G10

<400> 4289

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gtagaagaca tcatgaatac tggtggtcgg ctcattgctg gctctcacaa cagaaacgaa 120

ttcgttctca ttaacgccga tgagagtgcc agaatacgat cagtacaaga actgagtggg 180

caaacatgtc aaatctgtgg agatgaaatc gaattaacgg ttagcagtga gctctttgtt 240

gcttgcaacg aatgcgcatt cccggtttgt agaccatgct atgagtatga acgtagagaa 300

ggaaatcaag cttgtcctca gtgcaaaact cgatacaaaa ggattaaagg tagtccacgg 360

ggttgatgga gatgatgaan gaaagaaaga agacattgat gatcttgagt atgaagttt 419

<210> 4290
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-G11

<400> 4290

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tctcctctct tggggtttat cttagattct ccaaaaaagt ctctctcttt ccatggnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn gatgaaggtt catatattgg agtaaacata gggactgatc tttctgatat 240

gccacatcca acacaagttg ttgctctact aaaagctcaa gaaatccgac atattcgatt 300

atacaacgct gatcccgggt tgttgattgc tctagcaaac actggtatca aagttataat 360

ctccattcct aatgaccagc ttcttggtat angtcaatcc aattcaaccc 410

<210> 4291
<211> 480
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-G2

<400> 4291

aangttaccc gccggtacgg tgcaaaattc ccgggacgac ccacgcgtcc gaccgtgcga 60

tancctaaat ttcaacgttg attccacttt gtcaagtttg tatctttccc actttgattc 120

cgatttgtta aagatttgca gattaaaagt tttctttttg aagaaatcca tgagtgccca 180

aatggaagaa ccagagactc tcggnaaaag aaaagaatct gaaagttcaa aacttcgttc 240

tgatgaaact ccgacgccag aaccaagaac gaagcgtaga agtcttaaac gtgcttgtgt 300

acatgaagtt gctgttccta atgattacac accaacgana gaagagacga ttcatgggac 360

gcttgataat cctgtcttca atggagacat ggccaagact tatcctttta agcttgaccc 420

ttttcaaagg tgtatctgta gcttgtttag agagaaaaga atccattttg ggatctgcnc 480

<210> 4292
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-G3

<400> 4292

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cngttcttct ccaagaacct ctctctcttt ctgcttctct atattttaac actttcttcc 120

gaatttgccc ctcaagtttt attttaattg ctaaaatggc tggaacccta gttaactccg 180

ccgggagatt ctcaccggga aattgtattc ttcctcaaca gagaacagcc agattctaca 240

gcggaaccgc gagatttccc accggagctc cgtcgtttaa ggcttcagct cagacgctta 300

acgccgagcc agctgtaacg gaatccgttc gtcggagagt ttctagcctc tacgaattac 360

tgaaagtgaa tgaaacggcg tccttgacgg agatcaagac ggcgtacgga gcttagctaa 420

agtatatcat ccagatgcgt cggaatcgga cggtcgagat tttatggaga ttcacaaagc 480

ttacg 485

<210> 4293

<211> 493
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-G4

<400> 4293

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gtccgtgagg cctctgctct gcattgctgt ctgcgagctt gtgggaggcg acgaggctac 120

tgccatgtca gctgcttgcg cggtcgagat gatccacaca agctctctca ttcatgacga 180

tcttccgtgc atggacaatg ccgacctccg tagaggcaag cccaccaatc acaaggtatt 240

tggagaagac atggcggttt tggccggtga tgcgcttctt gctttggcgt ttgagcacat 300

gacggttgtg tcgagtgggt tggtcgcttc cgagaggatg atccgggcag tggttgagct 360

ggcaagggcc atagggacaa aagggttagt ggcaaggcaa gtggttgacc taagcagcga 420

aagattgaat ccacacgacg ttggattgga gcgtctanag ttcatccacc tccacaaaac 480

ggcggcgttg ttg 493

<210> 4294
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-G6

<400> 4294

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tggccgccat ggtgaagtac tctcaagagc ccgataatat caccaaatct tgcaaggcga 120

gaggagccga tctcagggtc cacttcaaga acactagaga aacagcgcac gccataagga 180

agctaccatt gaacaaggcc aaaaggtact tggaagatgt catagctcac aagcaagcta 240

tccccttcac ccgtttctgt cgtggtgttg gtcgtaccgc tcaggcaaag aacaggcatt 300

cgaacggaca aggtcgctgg cctgctaaat ctgctcaatt cgttcttgat cttctcaaga 360

atgctgagag caatgctgag gtcaaaggtt tggatgtcga tgccctttc atttctcaca 420

tccaagtgaa ccaagcaagc aaaacagagg agaaggacat atcgtgctca tggaagaatc 480

<210> 4295
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-G9

<400> 4295

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ggccgggaac gattgggtaa acagttactt agaggcgatt ctcgacgtcg gtcagggtct 120

tgacgatgct cgctcttctc catcacttct tcttagggag agaggtcgat tcactcccag 180

ccgttacttt gttgaggaag ttatcactgg ttacgatgag actgatcttc atagatcctg 240

ggttaaggct gttgctacga ggagtccaca agagaggaac acgaggttag agaatatgtg 300

ttgggaggat ctggaatctt gctcgtcaaa agaagcagca tgaggaaaaa gaagcacaga 360

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<210> 4296
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-H1

<400> 4296

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gcttttgctc atgagcttgt acctaccatt acttgcactt catctaatgt tgtacagacg 120

attctgcagg cgtttgctca aatgccagag ttaactgttt ggtatggtcc tgattcttac 180

atgggagcga atattgtaaa gttattccag cagatgacat tgatgactaa tgaagaaatc 240

gccaatattc accctaaaca cagcttagat tccattaaat cattgcttcc ccgtcttcac 300

tatttccagg aaggaacctg cattgtacat catctattcg gtcacgaggt agtggagaga 360

ataaagtaca tgtactgtga cgcctttctt acagcacatc ttgaggttcc aaggtgaaat 420

gtttcactag caatggaagc aaaagaaaag agagattggg tgttgttggg ttaacacaan 480

<210> 4297

<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-F1

<400> 4297

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ttttggttga ttcgattaag ctaaccatgt cttacaaacc aagcgcgaag actgaggttc 180

gccggaacag gtataaagta tctgtggacg ccgatgaagg tcgccggaga cgggaggata 240

acatggtgga gatccggaag aacaagagag aggagaactt gcagaagaag cggcgtgaag 300

gttttaatcc ttccatggcg tcacagccag ggcaggattt ctcctcgtct ctccctacgg 360

aaacgagatt ggagaatata caacaagatg attgctggag taatgtcaga ggatagaaga 420

cttacaattg gaggcgacgg ctagcttcan gagattgctt tcaattgagc gaaatcctcc 480

atcaatgaag 490

<210> 4298
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-C5

<400> 4298

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taatcccctg tcggctccca gatgcagacc actcagcctc tccttccccg gatcctcaac 120

cttctcgatc cgcccctcta gcagacgcgc aaccgccttg acgacccgcg cctcctacac 180

cccgacgccg gcgactgagc gcgtgatttc gatagcgtcg tacgcgctgc cgttcttcaa 240

ttctctgcag tacgggcggt tcctgttcgc gcagtaccca aggctgggat tgctgttcga 300

gccaatcttc ccaatcctga acctgtacag atcggtgcgt acgccaagct tcgtgggatt 360

cttcggggct gttacctggg gaattggtga nggaacacga agttttcagt aggtaacgtt 420

ganggttcaa cggcgaangc aaggc 445

<210> 4299
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-C9

<400> 4299

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gtgataaagt gaaattcggt tatgataaag ataatattct attacaagat gttacactta 180

atattgatat ggattcacgt gttggtgtgt tgggggccaa tggggttggt aaatctacat 240

tacttcatct tttgattggt aagattcaac cattagaagg tacagtgata cgaaattcta 300

gtgcacggat tgcaactttt gcacaacatc atatggaaca attaaattta caacaatctg 360

cccttgatct cttcattgaa ctctttccta aaaatcaacc tcaacttctg gcgt 414

<210> 4300
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-D10

<400> 4300

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cgattggatc gctatttcgt catttctcac tttccaaaaa gaaaaaaacg aatctctctc 120

caccatcatc acctttctcc ttcacttgcc tcagatctgg ctgcgatttc aaatcttcct 180

tagtttctct cgcatcgctc ggccgttgac ggtcccgtcc tttccgtgga tctgattctg 240

gccccggatt ctctcgccgc gatctgaggt caaacatggc ggctgctaac gcgcccatca 300

ttatgaagga ggtcctaacg cttccgagcg ttgggatcgg tcaacagttc atcaccttta 360

caaatgttac tatggagtcc gataagtaca taatgtgtac gagagacggc accg 414

<210> 4301
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-D11

<400> 4301

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cgtcggagcc ggaaaccgga gcccaaacct gacatatact ccactttcgt agtccactcc 180

gactctgatt ctgatcaagg tcgagatcga gacaaacgta aagccaaacc tgaggaaaga 240

cgaaaatgtc gatttatacg ctacaatggt ctacaaaggc gatagtgacg gagaaggaga 300

ggaagatgat gatgacgatt ctatgcttcc tcctcttctc aagcgtcttc ccaaggattt 360

cggaggcggg cgcgtcgctc gattacgacg acgacgaacg gtgatgaatc ctggaga 417

<210> 4302
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-D12

<400> 4302

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caatggcttc tttggaaaat ccagcaatcg attcttcaag cgaatttgag agttcttctg 120

aagagatctc ttcttctaaa gaaagcaaac ccaaagaagc tcccgtcact gttccgtcaa 180

caaaaaccct aaactctcct tccgccgccg tggcagtttc tgatgactca gagtcagaga 240

agcagtcatt cgtcttaacc aggcggaaga agaaagaagg tgctgctgaa tcaccggcag 300

tgaagtcagg gaagaaagaa ggtgctgctg aatcaccggc agtgaagtca gggaataacg 360

aaggtgctac tgaatcaccg gcggtgaagt caggggaaag aagccaanct 410

<210> 4303
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-D4

<400> 4303

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catctctcaa acctgccaaa aaccattcct ttaaagcatt gccggcgcaa tctcgagatt 180

ccttctcttt cccacatacc tccaaaccca ccaatctacc gttgactctc tcctcggctc 240

gttctgtggc acgcgacatt tctcatgcgg attcgaagaa agagcttctt aaggatccgg 300

atgcgttgtg gaagcgatac ctcgattggt tttatcaagc aagaaagagc ttgggttgta 360

tctgggatat taatcgggtc ggatttaccg atgagtttgt ggctgaaatg gagccaaggt 420

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gaaaggaaga a 491

<210> 4304
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-D6

<400> 4304

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnngata atgggagcct atgaaacaga aaaaccaact aaagatgcgg 180

cggctctaga gacacagtcg ccggaagatt tcgatcaacc atctccgctt cgtaaaatca 240

tctccgtcgc ttccatcgcc gccggtgtac agttcgggtg ggccttacag ctctctcttc 300

ttactccgta cgttcaactc ctcggaatcc ctcacaaatg gtcatctctc atttggctct 360

gtggtccagt ctccggcatg attgttcaac caatccgtcg gtttcacagt gaccgatgta 420

ggtccaaatt tgggtcgccg 440

<210> 4305
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-D8

<400> 4305

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ctctctctcg tctccaatgt ctgcaacgaa ttggaaacgc atctaggatc tgcagaaaaa 120

gttttggctg agttcattat cgatctaggt cgtcactctg agacagtcga tgaattcgat 180

aagaatctta aggaagcagg tgcagagatg ccggattact tcgtccggtc gttgttaact 240

acaatccacg gtatttatcc tccgaagcct aagtcggaga agaagaaaga ggaaggtgat 300

gatcagaaat tcaaaggctt agcgattaag gatactaagg gataaagtta aggagctcga 360

gaaagagatt gagaagagaa actgaggagc gacgggagag aagaggatcg aaatanagat 420

<210> 4306
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-E1

<400> 4306

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tttgtaaatt cagaaaacgt tcccaaatca gttatgctga agaacaaaag gccccgtcaa 120

gttagtgaag tatctgcact tgatgtaggc ataacagctt caaacctttg gagctctgtt 180

ttgacgcaac cccatgagtt tgcacaatcg tgcatcacct cacagtggag ttctcctcag 240

caatgtcatc gtgatgcaaa tgaggatgct aagaaatctg actggctaaa taactcctac 300

tcctgtgtca aatgtagcaa aagactcaac actgaacgac caaatggttt ccccagtccg 360

aagcagaaga agcctgagac aacccgctaa ttatagatta tttgggaatt gatctgatga 420

<210> 4307
<211> 493
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-E4

<400> 4307

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ttcaagaaca aagagagaga gagagagaaa atttaatggc gttagcgaat aacttaacgg 120

cgatactcaa cttactagcg ttactctgtt ccataccaat aacggcgtca ggtatatggc 180

tagcttcaaa gccagacaac gagtgtgtca atctcctccg ttggcccgtt gtcgtcctcg 240

gcgttctcat cctcgtcgtc tccgccacag gcttcatcgg cgcctacaag tacaaggaaa 300

ctctactggc ggtttacttg tgctgtatgg cgatattgat cggacttttg ctggtggttc 360

ttatatttgc attcgtcgtg acccgggccc gatggatcgt atcgggttcc gggtanaggt 420

tataaagagt ataggcttga anggttctcg aattggctta aggagaacgt tgtggattcc 480

aaagaactgg gga 493

<210> 4308
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-E5

<400> 4308

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gaaataattt gctctttagt tactgacgca tgtattcaag tctgcccaaa gaatccaacg 120

aatttcaatg tggataatgt tcgtgtttcc aagcttttgg gaggaggctt gcacaattct 180

tgcatagtcc gtggtatggt cttgaaaagt gatgctgttg gtagcattaa gcgaatggag 240

aaagcgaagg ttgctgtatt tgctggtggc gttgatacca ctgcaacaga gaccaaagga 300

actgtcctca ttcatagtgc tgagcagcta gagaactatg caaagacaga ggaagctaaa 360

gttgaggagt tgattaaagc agttgcggaa tcaggagcca aagtcattgt taatggagga 420

tcaattggag aaatgggcat tgcatttctg tgagcgctac aaagataatg gtattgaaa 479

<210> 4309
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-E7

<400> 4309

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nnnnnnnnnn nnnnnnnnnn nnnactcatt ttctccgcag agaaaataca atccatggct 120

tctactttta ggctctctat tagcttcctc actctcatcc tcttctctct gtgggtagtg 180

gaggcacaca cgtctagaaa gttgatatca atcaaggaaa aagaaggtca agatattagt 240

catttgctca aagatggtga atttgatgac ccttcgttgt acatgtattt cacactcaat 300

gatctcaaac taggaaccaa attgctgatt tacttctaca aaaacgatct tcaaaagctt 360

cctccacttc tcacaagaca acaaggccga tctcattcct ttcactaagt caaagcttga 420

cttccttctc gaccact 437

<210> 4310
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-E8

<400> 4310

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gaagtcgaat gaatagagct actgtggctg gatactggaa ggcgacggga aaagaccgta 120

agatcaaatc aggaaagact aagattatag gtgttaagag gactctagtg ttttatacag 180

gtcgtgctcc taaagggaca cgaacttgtt ggattatgca tgagtatcgt gctactgaga 240

aggatcttga tggaacaaag tctggccaga atccgtttgt tgtttgtaag ttgtttaaga 300

agcaagatat tgtgaacgga gctgctgaac cagaagagtc aaagtcatgt gaagttgaac 360

cagcggtatc gtctccaact gttgtggacg aggttgaaat gtctgaggta tctcctgttt 420

tccctaaaac agaagagac 439

<210> 4311
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-E9

<400> 4311

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cgccattaac gatgcggttc acaagcttca gctctatatg ctcgaaaata ccactgatca 180

gaaccagctc ttcgcggcga ggaagttaat gtctcgatca gattacgaag atgtcgtcac 240

tgaacgagca atcgctaagc tctgtggtta tactctttgc cagagatttc tcccttccga 300

tgtttctaag aagagggaag tatcggattt cgttgaagga ccataaggtt tacgatttac 360

aggagacgag caagttttgc tccgctggtt gtttaattga taagc 405

<210> 4312
<211> 507
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-C4

<400> 4312

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agaaccgacc ttttgcttag tttctttcaa gtctccaatc aaacaaccat gagagaaatt 120

gtgacgattc aagttggaga attcgcaaac tttgttggct ctcacttttg gaatttccag 180

gatgaattgc tcggattggc tagtgaccct gaaagcgatc caatctttag aaaccataat 240

ctcgacatgg atgttctcta ccgctccggt gagacccagc agggggttgc tacatacact 300

cctcgtttgg tttcagtcaa cttaaaaggg gcactangga ccatgaagct cacgcggtac 360

actttacaac gaaaggttct tcatcaagat naagattcct tcagcaancc tggtttgggc 420

gatgttgata ctcaagggat tctggaanct ccganaagag gaaccttggt tcctgcaana 480

gtttggtacg aagggaagaa caatgtt 507

<210> 4313
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-H3

<400> 4313

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agctcaagag attaggaaag gtgctgcttc tgttgatggt gttgaagcca tactctggca 180

ggtacccgaa acgctccaag aagatgtgct ctctaaaatg agtgcaccac caaagagtga 240

tgctcctatt atcaccccaa acgagctcgc tgaggctgat ggatttatct tcggcttccc 300

aacgaggttt ggtatgatgg ctgctcagtt caaggcattt ttagatgcca ccggcggcct 360

ttggaggact cagcaactcg ccggtaaaac cagccggaat cttctacagc acanggtccc 420

aaggtggtgg tcaagaaacc accgcattaa ctgccantac tcaactggtt catcacngga 480

tgatctttgt cccnattggg cta 503

<210> 4314
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-H7

<400> 4314

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tgaaaatggc atcaagaaaa acaacatcct tgcttaatca tcttcttctt cttggagctt 120

tgactctttt gagcagtttg gtgatagtga aaggagaaag cccttacaag ttttacactt 180

ggactgtgac ttatggcatt atctctcctc ttggtgttcc tcaacaggtt attctcatca 240

atggtcagtt tcctggtcca aaacttgaag ttgtgaccaa cgacaacatc atcctcaacc 300

tcatcaacaa acttgaccag cctttcctct tgacctggaa tgggattaag cagaggaaga 360

actcatggca agagggtgtt ttgggaacaa actgtccgat tgaaccanac tcaaacttca 420

cttacaaatt ccaaaccaaa agatcagatn ggga 454

<210> 4315
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-H9

<400> 4315

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gctaagattg atcccatccc tccaggtagt ggaaggtgtt gctagtccca ataagagaag 180

aaaaacctct gaactggtac agagtgaatt agtgaagagt tggagccctg catcacagac 240

cttatccact gccgtgtcaa catcaacaaa aactatagga tgcagctatg ggaatctcat 300

agctgaagca aacaagggga atgcaccttc aagcgttttt gtttatgctc ctctccatgt 360

ggtcaagcat tcttcgttgg tccataaagc atgccaaact aactagtcag atggaggna 419

<210> 4316
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-A10

<400> 4316

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gctgttgcac tggcggttgc tgcaattcca gaaggtctgc cagcagttat taccacatgt 120

ttggctcttg gcactaggaa gatggctcag aagaatgctc tggttaggaa gctacccagt 180

gtggagactc ttggatgcac caccgtgata tgctctgaca aaactggaac tcttacaacc 240

aatcagatgg ctgtttcaaa gctcgttgct atgggttcga ggatcggaac tcttcgatct 300

ttcaatgttg aggggacctc gtttgatcct cgagatggaa agattgaaga ttggccaacg 360

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<210> 4317
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-A3

<400> 4317

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cagaaccaaa aaagaagaaa ccttttttgat tctctttgcg atttctttgt tcaatctctt 180

ctcagattgt gtgaatcggg tttaaatcgg ggttttaggg tctctgtttt caaaagggta 240

ccaaaaagtt tggagcttta ctgtagaaag atttgatttt tcgttgaccc actccgagat 300

tttcggatac aaatcacggt tttagggttt ttgttggaat ggaagaggat tatcaacagc 360

cgaggtttac gantgggtag gcaatcatca atggcgccgg agaagattcc ggagccgtcg 420

gttcactcan gaagaagang tgtttgaagg atggagaaga aatcgatggt ggngtgagac 480

taaaggtat 489

<210> 4318
<211> 370
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-A5

<400> 4318

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tcaggtcttg aagaagagca ctcttttaag ctgtgtgaaa cttgcgccgt tcctgtgaag 120

aactactttt ggcattgcag atttcagaga gctgtgattt gtgctatctt aaaaacggac 180

aagttctatg ttgtggcgga tgagatgagg gatgctatct gggttgatga attttctgaa 240

tgcctgtctc tggccacggt cagatcagca ggctcgttct gcctcaagat tctggtggcc 300

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catgggcgtc 370

<210> 4319
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-A8

<400> 4319

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cctacgccgt cactctcctc ccggtgcgca cattagcaac actactcccg acgaatggag 120

acgacgacgc cgcagtcaaa atcaagtgtg tcccaccgac cgccgttggg aagagaagac 180

tggtggagtg aggaagcgac ggcgacgctg gtagaagcct ggggcaatcg ttacgtcaag 240

ctgaaccacg gaaatctccg gcagaatgac tggaaagacg tcgccgacgc cgttaactct 300

agacacggtg ataacagccg taagaagacc gacttacagt gtaagaaccg ggtcgatact 360

ttgaagaaga agtacanaac angagaaagc taaactctcg ccgtcgactt ggcgtttcta 420

taaccgcctc gatgttctaa t 441

<210> 4320
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-B2

<400> 4320

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tctagtacca tgcttgttca ctatgacaaa gggactccag cagttgctaa tgagattaaa 180

gaagctctcg aaggaaatga tgttgaagct aaagttgatg ccatgaagaa ggcaattatg 240

cttttgctga atggtgaaac cattcctcag cttttcatta ccattataan atatgtgctg 300

ccttctgaag accacaccat ccaaaagctt ctgttgctgg tacctggagc tgattgaaaa 360

gacagattcc aaggggggaaa ggtgttgcct gaaaagattt tgataatgcc aagaatcctc 420

cgnaat 426

<210> 4321
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-B7

<400> 4321

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cttttgatcc gagacctatg agagccgtta actcaagcgg cgttgtagcg gccatcagcg 120

aggatttggt taaaacgctg cgtattanca ctgtcggtag aaaacaagag aaggaggaag 180

aagaggagaa gtcggtgaag tttaaggtga gagcagttgc gacggtgagg aacaanaaca 240

aagaggattt taaagaaact ttggttaagc atttggntgc ttttactgat aaaattggta 300

naaacgttgt cttggngctt atgagtaccc aaagttgatc caaatacgaa tgatccaaan 360

aaagagtaaa gctgcaattt tgaaaagatt gggcaaagaa atcaaattca aaagggcgga 420

aagagtccaa ttacacnggc c 441

<210> 4322
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-B8

<400> 4322

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aacagagtaa atttggctct tatgcacctg tcgtgtgaat cctgatctcg ctttagatnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ncaagnttct 300

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atctgatcaa ntaggttat 439

<210> 4323
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-C1

<400> 4323

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acacttctct ctctctttct ctttgctatt catcttctac agtttcttaa aaattatacn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnca ggatttgttt tttccgtttg aggtaaagca gctttgcagt 240

taaagaaacc ttgagtatcc aatgtccccg gaagaggagc tacagagcaa tgtatcggtg 300

gctagttctt cacctactag caattgcatc tccaggaaca ctctaggagg acttaaagaa 360

gcataactac ttgggtctct ctgattgttc ctccgttggg aaagctctaa tctctctccc 420

cttgctgaag atgacaaagc tactatcagc ctcaagggta cggagctgac acttggtcnt 480

cct 483

<210> 4324
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-C10

<400> 4324

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gagatagata tctatagcat ctatacctca gtttgcatag gagattctgc gcgatcgtct 180

tactttgatt cagcgcaatt caaaacaaat tctcgcatta gctccaagag gatgccaccg 240

aggctcatgg gtggatatga tccatgctta gatgattacg cgagagtatt ttacaacaga 300

gcagatgttc agaagtctct tcatgcgagt gatggagtta atctcaagaa ctggagcatt 360

tgcaacatgg agatctttaa taattgggac tgggtcaaaa cccgtcggt 409

<210> 4325
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-C12

<400> 4325

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gcctgcgact caaccgcaac agcaacatga gcagaagaag caatcagaga ctgtttcatc 120

tgctgaagaa gatgctttga agtggaacac cgattgcgtt tactttctcg cttctccttt 180

aacctgcaag aagggacctg aatgcgagta tcgccacagt gagtatgcgc gtatgaaccc 240

gagggattgc tattattggt tgaatggaaa ctgtttgaat cccaaatgtg gatttcggca 300

tcctcctttg gagggattgt tgggaaatca aggaggtgct cctgctgttt ctgtacagcc 360

aatacatgca accgcgcagc atcctagtgt tgcaaaaaca acccggttnc a 411

<210> 4326
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-C2

<400> 4326

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ccactgatct atctacttag gtcttctcta acaatacttg taattttctt tctttttgct 120

tcttccgtca ctacatctat ggccgctgag tcttctaacc ctcgcaccgt cgaagagatc 180

ttcaaggatt ttagcggtcg tcgctccggt tttcttcgag ctctctccgt agatgttgac 240

aagttctact ctttatgcga tccggaaatg gagaatctgt gtttgtacgg acacccgaat 300

gggacatggg gaagtgaatc ctccaactga ggaagtgcct ccggagctac ctgagccaac 360

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antttggctg tccacaagtg atttgtttgg gtactcc 457

<210> 4327
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-H2

<400> 4327

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gagtcatact caaacgttca tacttggctg agcagtgtgc ttacaaacta catgacatgt 180

ttagaaagta ttagtgatgt ctccgtcaac tctaagcaaa tagtcaagcc acaactcgag 240

gacttggttt ctagggcaag agtggctcta accatctttg tctccgtctt gcctgccaga 300

gacgatctca aaatgatcat ttccaatccg cttcccgtcg tggctaactg ctcttgacag 360

aaagctttta gaatcctctc ccaagacact taaaggtgac cgcgaacgtt gtggtggcaa 420

aaagacggna accgggaaag ttcaaaacag ttgaatgaag gaantggcgg gcaacaccgg 480

ngaacagcaa 490

<210> 4328
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-043-Q1-E1-H5

<400> 4328

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gcataccaat ggctgaaacc tggcactttt atttgggtga acccccttact gtagtggaac 180

tctacgatga tgggaagttg aaattcacat gtcttggtcc tgacttgttt gaaggtgatc 240

agaagcctca gtacacggtc cctccaaacg tctggtttgg ttcgtttcct acaaaggatg 300

ttcatttttc tcaagacggg gctctgctta aagctgaggc tagagactct gagaaccatt 360

tctctcttgt tggctgcacc tgcgctcctg ctttccagtt cgaggacttt gagctcgcga 420

aacgctctga tctcttatca aggtttccgc aacacgaatc actcatcaca atgctatcct 480

taaccggggg t 491

<210> 4329
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-H6

<400> 4329

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gatcgaaagg aagagatcgt ttgatgaaag atcgatgagt gagctatcga ctggttacag 120

tagacatgac ggtatacacg attcgccgcg aggtagatcg gtgcttgata cgcctctttc 180

ttctgctaga aactcctttg agcctcatcc tatgatggct gaagcttggg aggctttaag 240

aaggtcaatg gtcttcttcc gtggtcaacc tgttggtact cttgccgcgg ttgataatac 300

taccgatgaa gtcttgaact atgatcaggt gtttgtgagg gattttgtac cgagtgcgtt 360

ggcgtttctg atgaatggag aaccggatat aagtgaaaca ttttttgcct aanaaa 416

<210> 4330
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-H8

<400> 4330

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tcatcaattg aagctgtttt cttgagtaga gatggcgaac catagaatga gcgaagctac 120

aaaccataac cacaatcatc atcttcctta ttcacttatt catggtctca acaacaatca 180

tccatcttct ggtttcatta accaagatgg atcgtccagt ttcgattttg gagagctaga 240

agaagcaatt gttctgcaag gtgtcaagta taggaacgag gaagccaagc cacctttatt 300

aggaggagga ggaggagcta cgactctgga gatgttccct tcgtgggcca atcagaactc 360

accaaactct tcctactgag aagttccaaa gtcaggagga gagagcaacg attcnagggt 420

ttg 423

<210> 4331
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-A1

<400> 4331

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tcaagctgga ttggatcaag attctaccat ggatgttcta ccataaggtt ctaggcgtct 120

caacattctt ccttttcgtt gaagggaaag ctgctactcc gagtatttct aaagtgctcg 180

agtctattcc tggtgttaaa gtaatataca ggacgaaaga gcttgaggag aagcaagcga 240

agagccggat ttggaatgag acctggcttt cgtctttctt ttataagccc tgcaattatg 300

agttatttgt caaacaatct ctcaacatgg aaatggctat tgtcatggct agggatgcgg 360

gcatggattg ggatacttca tcttgacact gatgagctga tataccaaca aggtgctccg 420

tgagtactca ctaagacngg ttgcctgctt gatgttcccc caaatgtgga taanggtaaa 480

atttccaaat tacgaaagca ac 502

<210> 4332
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-A10

<400> 4332

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tcttcctcaa atgaaaaagc cctaattttg atcgtctaaa tttcatacat gggtgcgaac 120

gagtttcgtt tcttcctctc ctgcgatatc aattcgccgg tcacttttcg tatcgagaag 180

cttgatggaa acctccccgt caagaaatcg tctgattcgg gagttgtctc catcgcagan 240

gagaaaaaac cagagcttta cattgagtgt gcattgtaca ttgatggagc tccctttgg 300

ccttcccatg aagaacaaga ttgaaaacta cagggaccaa caatactggc tgggnaacga 360

actcatcaac tctcaagttg cnaaataacc ggggacnttg actggcccaa ntcaacaaac 420

ttggcgaatt acagttangg ggatgtttcc ttgtg 455

<210> 4333
<211> 504
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-A3

<400> 4333

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cttcacctat agtttatctc ttttttttt ttgttttggc ttctcttaaa ttcactttct 120

ctaaaacata aacgacattg atgtttcttc atcagatcct ttaattcttc tccaattctc 180

attctcctta catcaatgat aaactttgta gttggagatt tgttgtggat gaagattatt 240

gattgcagct tataggaagc tgctcttttt gttttgaaca atgttgctaa cttttcagat 300

tcttataatt aatcagtctt atgatgagaa gttggttctt gattacatac tacaatcaag 360

aagtaaacaa gttaagcaat cctgtgacgg gtcctgtgtt caaaagagta gatacttgtt 420

ctcaaagggt ggaaggttaa cagaaggaca aattgaccgg ggttttaaac ngttggttgg 480

tatggcccga ataaacggaa tcaa 504

<210> 4334
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-A5

<400> 4334

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ttgctagagg aatcaaacaa tggtgtttgt gaagtccacc aagtcgaatg cttacttcaa 120

gaggtaccaa gtgaagttca ggagaagaag agatggaaag actgactaca gggcaaggat 180

ccgtcttatc aaccaagaca agaacaagta caatactcct aagtatcgtt ttgttgtccg 240

gtttaccaac aaagacatag tggcacagat tgtatctgca agcattgctg gtgacattgt 300

taaagcttct gcttacgcac atgaactgcc tcagtatggt ctcactgttg gtcttacaaa 360

ctatgctgca gcttactgta ctgggccttc ttttggctcc gcctgtttta aaagatgttg 420

ggaatggatg acnaagtatg aagggaaacg ttgaaggcaa ctgggagaag actttcccgt 480

ttgagccaac tgantcaa 498

<210> 4335
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-A6

<400> 4335

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atcaagcgac tcagattgta tcgatgaggc tgacccgagc agaaccacct ctaaggaaag 120

aagtagttga gtatatgctt gatgtgggtt ctcacatgtg gagtatgcgg agaagcaaag 180

caaacttttt caggattatg ggagttttga gtgggttaat cgcagtagga aaatggtttg 240

aacaaatctg caactggaag aatccaatca caacagtctt gatccatctc ttgttcatca 300

tccttgtgct ctatcccgaa ctaatcttgc ccaccatctt cctctacctc ttcctcatcg 360

gtatctggta ctaccgttgg agaccgaggc atcctcctca catggacaca cgtctctctc 420

acgctgactc agcccacccc gacgagctag atgaagagtt cgacactttt cctacttccc 480

gaccatcct 489

<210> 4336
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-A9

<400> 4336

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gttggacgat tcataaccaa aaacatggtc aagatccttg aatacataag acttgcacct 120

caaggaagcc aaagggtctc aaatttcctg gagcaggctg cggaaggatt agtcgacggt 180

ggaaggagag agattttcac gccaatgtat ttcttcttgg cccggaagcc agagtaagcg 240

gatgagagat ggcgatggtc atcgtaggtc gaatgaagtg acaaaatttc tcaatttgca 300

gtcttatttt ctatgtttat cggatttgtt gcanagtttc ctaatcacca actaatattt 360

tgggatgttc gtaacatgtc accgtgttgt tcatgtgcac tcctgcctga aatcctga 418

<210> 4337
<211> 506
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-B1

<400> 4337

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ataagatttt gatcaaaaga agacgagatt cgatccgatc cgatctgatt gaagaagaaa 180

tggcgaatct gtatgtgaaa gcggttccac caccggatat gaataggaat acggaatggt 240

tcatgtatcc aggagtttgg acgacttaca tgcttattct cttcttcggt tggctcgttg 300

ttctctctgt ctctggttgt tcccctggaa tggcttggac tgttgttaat ctcgctcact 360

tcgttgtaac gtatcacagc ttccactggg atgaaaggaa ctccttttgc agatgaccaa 420

ngaatcctac natgggttaa acttggtggg aacaaaatgg gcaaatgggt caacagcnta 480

cccgnaaccg ccaaatttct taccct 506

<210> 4338
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-B10

<400> 4338

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn cttgaatatg 120

ccttcaaaaa atctacaaca ggcagtcctc acaaacgaat tcacaaccaa cttcattacg 180

acctgtaagg actggctcga cgtaaatggt cttgctaaag gaaacttgga gaagaagaga 240

gatgataatg aagaagaaga gcgtctgaaa accgagtcta aacttccggg ccatgacatc 300

cacggtttcg ataacgagat naagtcattg caacacttct tgttggatta agaaggttag 360

gagggagttc aagagtcttg tgaatgtcgg gagaatatgg tgtttgggga agacagcatt 420

atgccagaag atcttcaatg atgaaan 447

<210> 4339
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-B11

<400> 4339

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tctgagagac gttcacattc attgatgcct acatttagca gagagagagg ggagagcgaa 120

tcacacaagc cttccgtctc tggacaaccc ttgtctagta cagagagaaa tcaggcagcc 180

tcaagcaggc acactatttc tatcccgcgg ccatcattaa gtatggacac agatcaagct 240

gaatcgcgta ggcctcatct tgtgatacga ccaccgacag aaagagaaca gcctcagaag 300

aaacttgtta taaaacgttc gaaagagatg aatgatcatg acatgagtag tcttgaagag 360

agtccacggt ttgagtcccg gaaaacaaaa agaatggcag aactggcggg ttttcagang 420

cagcagagct ttagattgtc agagaaatct c 451

<210> 4340
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-B12

<400> 4340

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gtccgggata ataaaaccta cgaactcgtc accaaagaaa tctttggacc atttcagatt 120

gtaacggaat acaaaaagga tcaacttcct ctagtgttgg aagcattgga gaggatgcac 180

gctcatctaa ctgcagctgt tgtttcaaac gatcccatct ttcttcagga agtaataggg 240

aactcagtga atgggactac atatgctgga ctaagaggaa gaacaactgg agctcctcag 300

aatcactggt ttggacctgc gggggacccg agaggggccg ggatagggac accaagaggc 360

tataaagctg gtttggtcat gccacaagag aagtcatcta cgattatggt ccggttccac 420

aaggttggga acttcctcca tctacttaga agtggtgtgt ccactaataa ttaataaact 480

aagatnctaa t 491

<210> 4341
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-H3

<400> 4341

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tgaataagaa actctgcaac aaatccgata aacatagaaa ataagactgc aaattgagaa 120

attttgtcac ttcattcgac ctacgatgac catcgccatc tctcatccgc ttactctggc 180

ttccgggcca agaagaaata cattggcgtg aaaatctctc tccttccacc gtcgactaat 240

ccttccgcag cctgctccag ggaaatttga gacccttgg cttccttgag gtgcangtct 300

tatgtattca aggatcttga ccatgttttt ggttatgaat cgtccaacag ctgtaaggcg 360

gaagctactg ngtgnganat gantttgtc aanaggtaag gtacatggga ncgggngagt 420

ccnttggcaa gatcctt 437

<210> 4342
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-F5

<400> 4342

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cactatccag agtgtataca aaggttgttg tggagctttt atcagatcac aggaataaga 120

tggaggtatt tggaaaatct cccatggttg ttacatctgc caatgttatt tacttgtctg 180

caattctggg tcgcgattgc gatggacaca aatgtgattg gaaatgtgag aatgaaaatg 240

tttgtgggaa tatgtatcgc tgcaaactaa ctggactaac tcatgtctgc gacaagaact 300

gtaaccagcg gattctctat gataaccata gctctttgtg ccgagccagt gggaggattt 360

tccctctctc gtccgtcgag gaagcaggcg gttaaaggtg ttcggaagga agcttgacgc 420

ccgctgagan tcaacccttc tgaaaacct 449

<210> 4343
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-F6

<400> 4343

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tggacacgcc accgacttct cgtatcgcat cttttggtca gacggagatt aactgggaca 180

aacttgacaa aaggaggttc tacattaatg gagctggcct cttcactggt gttacagtag 240

ctctgtatcc tgtatccgtt gtgaaaacaa ggcttcaagt tgcttctaaa gagattgctg 300

agagaagtgc cttttctgta gttaaaggaa ttttaaagaa tgatggtgtt cctggtctgt 360

accgaggttt tggtactgtc attacaggtg ctgtacctgc aagaatcata attccaactg 420

ctccttgaag aacaacna 438

<210> 4344
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-F7

<400> 4344

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agaaacccta agttcttcac gtttcgttct tttgcttgtt gatcaagcag gatatctccg 120

agatttgtga gtctcttgct acttcttcct ggagaacgat tcagggtttg atgtgataag 180

aatagtcatc gaggaagata gatttgggga ttttttttt atttgtagat tcatgaaaca 240

aattcgtcga tggcagagga ttttgatcct cgctctgcta tcgatatctg tattcgctcc 300

gcttattttc gtatcgaatc ggcttaagag catcactccc gttggtcgta gagaatttat 360

tgaagagtta tccanaatta gattcacgac aantgacctt agacttagcg ctattgaaca 420

tga 423

<210> 4345
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-F9

<400> 4345

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnagaaac agagagtttt tgattctctc tgttttcaaa tctgttccac taagctctct 180

tgctttcggg aagattctgt ttcactgctg cattttggat ttttccgatg gatcgtaaga 240

gttggccatg gaagaagaaa tcctctgaga aaacagctac tgtcacagaa gttgttgatc 300

aggaaaatgg gaagaagccg agttatatcc aagatctcat ttgatcaata cacgaaatct 360

aaatggttta aaagatgaag tcaaagagct acgaaagaaa aagttacaaa gccttgagg 419

<210> 4346
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-043-Q1-E1-G1

<400> 4346

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agacgcatgt gaatcaagat gatctgttag tgaagtacca atacatctca gatgcgttga 180

ttgctcttgc atacttctca atcccactcg agcttatcta tttcgtgcaa aagtctgctt 240

tcttcccttа caaatgggtg cttatgcagt ttggagcctt tatcattctc tgtggagcta 300

cgcatttcat caacctatgg atgttcttca tgcattccaa agccgttgcc attgtcatga 360

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ataatcccga tctcccaagt ggttaag 447

<210> 4347
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-G10

<400> 4347

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ctggtggaaa gggtaagaat ggtgacgatg gtttgacgcc ggagcaacgc cgtgaaagag 180

atgggaaagc attgcaagag aaagcggcta agaaagctgc tcaagctgca ggtgcgagtt 240

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tgtcttttga gcatattgta nactttaatg tttgaaattg ggttgtttag acctgaagct 360

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<210> 4348
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-G2

<400> 4348

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attttcggga ttcattacag agagatggtg ttcctgcagt atcagcagat gtgaaatttg 180

cttcaagtag atttcctaat tatagaattg gagctaatga tcaaatattt gatgttaaag 240

acgatcctaa agtgatgtcc atgaaagagg ttgttgcgcg tgagacagcg cagcttatgg 300

accagcagaa acgtttgtct gttcgtgacc tcgctcataa atttgagaag ggtttggctg 360

cagctgctaa gctatctgag gaggcaaaac tcaaagnagc aacttcgttg gggaaacatg 420

gtccttttaa agnaaacttc gagat 445

<210> 4349
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-G3

<400> 4349

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aagctggttg actcattgga caagcttcgt gttagtgctg cgagttcatc ttctaatttc 180

aagaagaagc ctatcattat tatcgttgtt ggaatggcag gtagtggaaa aactagcttt 240

cttcatcgct tggtctgtca tacttttgat tcaaagagcc atggttatgt ggtgaacctt 300

gaccctgctg ttatgtctct accatttggt gccaacatcg atataagaga cactgtcaag 360

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a 421

<210> 4350
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-G4

<400> 4350

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ttttaaaccc ctccatgcac tcctcttgtt tatatattta ttgcttcttc tctaagtttg 120

ttgagtccta atcatctctc tatctagcaa cgtataaata taaagagaga gagcagagaa 180

atgggtttcg gctccttcat atctaccatc acttactgtt tgttctttcg ctatccacat 240

aagaagccaa agttcaaaag tgtgagccac ctcaaccatt accacaccat gccaatggct 300

cgtccacttt ctttacagac gatagacctg aaagtaagga tgtgttgcag tggatgtgag 360

agggttgtca agcatgccat ttacaagctg agaaggggtg gacncgttgg aggggaacct 420

<210> 4351
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-043-Q1-E1-G5

<400> 4351

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ttcgcacttc cggtggacgc ggagaacaaa gcaacaactt tccgactatt ctcagtcgct 120

aaacctcaca tgagagcttt ccatctctca tggtttcaat tcttttgctg cttcgtctcc 180

actttcgcag ctccgcctct cctccctgtt atccgtgaaa atcttaacct caccgccacc 240

gacatcggaa acgccggaat agcctctgtc tccggcgctg ttttcgctcg tatcgtcatg 300

ggcacggcat gtgatctttt cggtccacgt ctagcctccg ccgctttgac gctctccaac 360

gctcccgccg tctattcaac gccggataaa agtctcccga tcgggtt 407

<210> 4352
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-G6

<400> 4352

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caaaccctag tactattggc attagctctt gtcctagctt ttgcagttcc actgaaagcc 120

caagaccggc gacaagacta ccttgatgta cacaaccatg ctcgagacga cgttagtgtg 180

cctcatataa aatggcatgc gggagcagcc cgatacgcct ggaactatgc tcaaagaaga 240

aagcgggact gtcgtctcat tcactcaaac tcacgcggac gttacggtga aaacttggca 300

tggagcagtg gtgatatgtc cggagctgcc gcagtgagat tgtgggtcag ggagaagtct 360

gactacttcc acaaatcgaa cacatgccgt gctggaaaac aatgtggtca ataaactcaa 420

gttgtgttgg aaaaacncag ag 442

<210> 4353
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-043-Q1-E1-G7

<400> 4353

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tattcacatt tgtctttgcc ggtttcgtca ttccaccacc ttctatgcca gcatggctca 120

agtggggttt ctgggcaaat cctttgagtt acggtgagat tgggttatca gtaaacgagt 180

ttcttgctcc aaggtggaat cagatgcaac ccaataattt taccttagga cgaaccatac 240

tccaaacccg tggaatggac tacaacggtt acatgtactg ggtatcatta tgtgccttgt 300

tgggtttcac tgtgctcttc aacatcattt tcactctggc tctaacgttc ttgaaatcac 360

ccacatcatc tcgagccatg atttcgcaag acaaactctc tgaactgcaa ggaacagaaa 420

agtcaacaga aagattcctc cgtc 444

<210> 4354
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-G9

<400> 4354

ctgttatccg ccgcnaccgg tccanaatcc cgggcnaatt ttggggtttt acattttcct 60

tatcaagaga acacctgaat ctgaaaatga tcactacagt gctacgacga tctctccttg 120

atgcgtcgaa gaggaatctc tccgcttcgt tgacctcaat caatactgtt ctgtttcaca 180

acctggcccc agccgccact agagtctccg acctagcctt aattggatct tccgatgtca 240

aagctgggtt tccgtttggt gttgaagcga aaggaattca ttttcaatct gggccgttgg 300

attttagagc ttcgatggtt tctcaagctg gatttgcgat ctctgagagt agcgagagaa 360

gggttggtga ttcggagagt gttggtggtg atgggcttgc gatatctgag cttgggatat 420

ctccggagat tgttaaagct ttgagtanta agggtattga gaaaa 465

<210> 4355
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-H11

<400> 4355

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ttactcaatc atgggagcag taggctcaat tctttctggt ttcattggtc ctacatttgc 120

tattgtgatg agcaacatga tcgaagtctt ctactacaca gactatgatt caatggaaag 180

gaaaacaaaa gagtatgtct tcatctacat tggtgctggt ctctatgctg tgggtgctta 240

tttgatccaa cattacttct ttagcatcat gggagaaaac ctcacaacaa gagtaagaag 300

aatgatgctc tcagctatct tgagaaacga agttggttgg ttcgatgagg atgaacacaa 360

ctcaagcctg atcgctgcac gtttagctac tgatgcagca gatgttaaat nccg 414

<210> 4356
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-F3

<400> 4356

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ggcgattttg gtgtatggtc gtccctttca ctgtatttct tagtcaatag catcttctcc 120

gatcatcgac gtccggagat ttcttcggcc ctctcatact tgagttgttg taggatttgt 180

tgctctggct ctggtggtag gtctatgaaa tcaacccata tcgtgaatgg actgcaacat 240

ggtatcttcg tcccagtggg attgggagca tttgatcatg tccaatccgt caaggactga 300

agatgacagc aaacagctac ctactgagtg ggaaattgaa aaaggtgaan gaattgaatc 360

tatagttcca catttctcag gccttgagag agtcaatagt ggctctgcca acagcttctg 420

ggnaaaactg gctgttatcg aaaaactcac a 451

<210> 4357
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-D10

<400> 4357

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ccaccaccat gcatcaccgt caccaccaac gcgacgacgg agaagacgat cgtcaatcct 120

ttggagtacc accgccacac gtcgatgctc cgccacaacc tcatggtctt taccagtcac 180

agcctcattt tgatccttac gcgcctactc ctcaagctcc ggcgccttac cgatcagaaa 240

ctcaattcga accccacgcg cctccgcctt accgatcaga gccttacttt gaaactccgg 300

caccaccgcc ttcatttggt catgtgagtc atgttggtca ccaatcaccc aacgaatctt 360

acccaccggg aacaccaccg ttacggaggt tatcaacagc cgtctaattc cttactggaa 420

agtcatggag atcacagtgg agtcacgcac gtggctcaac atagctcaaa tca 473

<210> 4358
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-043-Q1-E1-D12

<400> 4358

ttagattatt catccaaaag atgaacacac agaaactgtc ttcaagcttt aacgaaaacg 60

aaaaatcttc aacggattaa aacctcaaga agctctctat ccctttttgt caatcgatct 120

ccacaatctg aggccttctc tctgcagctt tcttgcgtat aaagataccc catctcaaag 180

cagctttaag ctttagccat ccaacaacag ctttccccga gcctctatta cgttctcttc 240

ggtacgtgtt atcgatctga gcttggtacg ggatgctata accgtaacaa gactcatcaa 300

gtctgaccaa accctccttg tgttcccaca agtgttcaca ccgataccaa acgtcttcaa 360

caagtctctg catatcgtca gtctcaagca tttcagaact ccttagtctg atttcttcgg 420

c 421

<210> 4359
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-D3

<400> 4359

acgcgtccgc ccacgcgtcc gattcangag ctcaataatt aactgattcg aaatggcgaa 60

gatgtaccgg aagttggcac tctgcggtgg tgagggagga caagaatggg acgacgatgt 120

atatgagggt gtaagaaaag tgtatgtagg gcaagatctc aaccgtatca cttacatcaa 180

gtttgagtac gtgcaggaag acggcgaagt agtaacaact gaatatggga caacaaatca 240

gcaccctaaa gagtttgtaa ttcaataccc ggacgaacac atcatagcag tggagggaag 300

ttaccaccaa gtggctctca ttgccacaga ngtgattacg tccctcgtct tcaagacctc 360

aaagggtaga aagtctccat tgtttggtcc aaacttactt gggnattacc gaccggtaca 420

aagtttggtt ttgaaggatt angggaaaag aa 452

<210> 4360
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-E1

<400> 4360

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ttaaacaaaa tccattctgg tggacacacc acanacatga tgggaagttg tggaacttga 120

acaattaccg cactgatgtc atccaagctc ttggaggtgt tgagggtatt cttgagcaca 180

cattattcaa ggggacatat ttcccgacat gggagggact tttctgggag aangcgtctg 240

gttttgagga ntcgatgaaa tataagaagt tgactaatgc tcagaggtct ggtctgaacc 300

agattccaaa tacaagattc acgctttggt ggtcgccaac aattaatcga gcgaatgtct 360

atgtgggttt ccangtgcag ttggatctga caggaatatt tatgcatgga aaagaatcca 420

cactttagga n 431

<210> 4361
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-043-Q1-E1-E11

<400> 4361

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tgctgttggg atcaaagagt agcaaacaat acgagagcag aagaacttac ttatagaaaa 120

aaatgggaat ttcaaaacca ctccctctat tttcgatttt agtcctctat ttttcactct 180

acaccattac accaacttct tcattagcct ccctccaaga tcaattcatc aactgtgtcc 240

aaagaaacac acatgtttac ttcccacttg agaaaacgtt ctttgctcct acaaaaaatg 300

tctctatgtt cagccaagtt cttgaatcga cggctcaaaa tctccggttc ttgaaaaaat 360

ccatgcctaa accggggatt catattcaag ccctattcac gagtctcaag ttcaaagc 418

<210> 4362
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-E12

<400> 4362

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aattcaatca ccaaatctga tatcgaagct ctaggaatct ccggtgatgt ctccgagaag 120

cttctcagag atctcgaaga cattattcac ggttcatcca cgccgccgga gacgtggatt 180

cagatttctc ggcggatcct tcaccctaat ctccctttct cttttcacca gatgatgtat 240

tacggttgct acaaggattt cggacccgac ctacccgctt ggatacccga cccgaaggtt 300

gcttctttaa ctaacgtagg caagttatta gaaaagcgag gcaaagagtt tttaggtgga 360

aattacaaga atccagtttc gaagtttctc ccagttttca agaagttcn 409

<210> 4363
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-E4

<400> 4363

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cacttgtctc cttcctcttt ctgggtttcg cgtcgtcctc gtgtttcttc ttcaattctt 120

tcttttcttg tccctcgccg tcgaatcctt tgcaccagga aagtagcaat cataaaggga 180

aatgcgggat attcgactgc tactgattgt ggtggttctc atgggtttca tcattcaggt 240

catcaaaggt catcctctgt tgagtttagt ggagagtgga aacttaattt gggatctaag 300

acggcgagaa tggttccgcc aactgtgaaa caagctggag ctgtaagtgc ttggagggag 360

gaagtcaata ataagttaag aggaagaaat aganaataag ngaacaacca agataaaggc 420

tttggggaat g 431

<210> 4364
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-E7

<400> 4364

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tttccgattt aggattcgat tcgagcctaa acagctctaa ttaccaccca attggtgggt 120

tattcgccag cgttaatcag actaatccat tcgcatccct ctcgtcctcg gatctttcca 180

acagaggcaa caacagcttc tctacccagc tcaatgatct ctacaccaag tatatgccgn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

ngctcacact gaagattaag atcgctaatc cttcgttgcg gcggctatta agcggagcag 360

tagctggagc ggtgtcgaga acggtggttg cgccgttgga gacaatcagg acgcatctaa 420

tggtgggaaa ntggaggaac tcc 443

<210> 4365
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-E9

<400> 4365

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agcttcaacg tctccgatct tactgctgct cttaaggacg aggatcgagc tggccttgtc 120

aatgctctaa agaacaagct gcagaatctg gctggtcagc gttctgatgt gctcgagaat 180

ctgactccca atgtgagaaa gcgcgttgat gccttgaggg atatacagag ccaacatgat 240

gaactagagg caaaattccg tgaggagaag agctattctt gaagccaagt atcaaacgct 300

gtatcagcct ttgtatgtca agcgttatga gattgtgaat gggcactact gaanttgaac 360

tggctccaag aggatgatac caaggtggac caaaggagaa gagaaaactg caaaaganaa 420

<210> 4366
<211> 496

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-F1

<400> 4366

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cattcgatct atagagacga aacaaaaaga gagatcgtac gcaaaagttt ccgatatggc 120

tcgctcgttt ggagctaaca gtaccgttgt gttggcgatc atcttcttcg gatgtttatt 180

tgcgttgtcc tctgcaatag aagaggctac gaagttagga tcagtgatag ggatagatct 240

tggtactact tactcttgtg ttggtgttta caagaatggt catgtcgaaa ttattgccaa 300

tgaccaagga aaccgtatta caccttcatg ggttggtttt actgactctg aaagactcat 360

tggtgangct gctaagaatc aagcagctgt taatccagag aggactgtct tcgacgttaa 420

gagattgatc gggcgaaaat ttgaggataa gggangttca aaaggatang aaacttgtac 480

cctaccanaa ttgtga 496

<210> 4367
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-F10

<400> 4367

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ccggcgagat ctcaatttga tccttcacgg tggcgtcgac gtccgggcaa caacaagctc 120

tctcgagaag aaagcnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnntgt tcgagctcct gcggcgaaga aaccgagtcc ggaataccca ttttggcagc 240

agaactggtt tatcggtctg ctattcgtga tggctttagg attcttctgt ctcgctatct 300

tcctttacct aagtctcgat cctgattccg gttacacgtc tgcctccgcc gctgcttctg 360

gtaaagaagg tgtcgagatt acttatggaa gtgcgatcaa gttgatgcac gaaaaa 416

<210> 4368
<211> 416

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-F11

<400> 4368

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ctctatcacc aaagactctc ctcaagggaa agccataaag gagactttgg gacattgtga 120

tgctaaagct attgaaggag agcataagtt ttgtggaact tctttggagt cattgatcga 180

tcttgtgaag aaaacaatgg ggtataatgt tgacctcaag gtcatgacga ctaaagtaat 240

ggtaccggcc caaaattcga taagctacgc tttgcataac tacacattcg tcgaggctcc 300

aaaggaactt gttgggatta aagatgttgg gatgtcacag aatgccttac cttatgctgt 360

ttactattgc catggacata aaggtggaag tagaagtcct tgaagttaan ttgggt 416

<210> 4369
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-F12

<400> 4369

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tgtttcttaa taggtttagg gttatgttct gctagacgag cactactctc ctcctctgaa 120

tccgaggctg aagtcgctgc ctatggcgtg aatagtggtt taagtgctgg tcttggtgtt 180

ggtaggtggt ggccctggag gaggctacgg aggtggaagc ggtgaaggtg gtggagctgg 240

atacggannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aaggatacgg tggtggacaa ngtgcctggt 360

gctggangga ngatatggag gtggangtgc ccgggggaca tgggang 407

<210> 4370
<211> 385
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-043-Q1-E1-F2

<400> 4370

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tgtctactgg attcggaatg agatcgatga gatctgggag agacaacaac atctgcttcc 120

tgggttttct ctcctttgcc cttatctccc ttccctcctt gtcacttgct cttaccaatc 180

ctgacgatgt tgcggctatt aacagtctct tccttgcact ggagtctcct cttctccccg 240

gttgggttgc atctggaggt gacccangtg gtgagagctg gcaangtgtt ctatgtaatg 300

cttcccaagt agaaacaata attctcanca ctgccagatc ttggaggaca gcttggtgtt 360

ggcttaaaca ttgtcacctc tcnta 385

<210> 4371
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-D1

<400> 4371

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taaacattac actcctccgg ttaaacacta ctctcctcca ccggtatacc actccccacc 180

accacctaag aagcactacg aatacaaatc tccacctcca ccggttaagc actactcacc 240

tcctccggtt taccattccc cacccccacc aaagaaacac tacgtgtaca aatctcctcc 300

tcctccggtc aagcactact ctcccccacc ggtttatcac tccccaccan caccaaagaa 360

gcactacgtt tacaaatctc cccctcctcc ggttaagcac ttantc 406

<210> 4372
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-G4

<400> 4372

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gtctccgttc gattcatttc cggaagattg catctcctac ataatctctt ttacaaatcc 120

acgcgatgcg tgcgtcgctg ctacggtttc gaaaacgttt gaatcgacgg tgaagtcaga 180

tattatatgg gagaagtttc ttccggcgga ttatgaatct ctgattcctc catcgcgagt 240

tttctcatcg aagaaggagc tctatttctc tctctgtaac gatcctgttc tattcgacga 300

tgacaaaaag agcgtatggt tagagaaagc gagtgggaag aggtgtctga tgttatctgc 360

gatgaacctc tcaatcatat gggggaagat aatcctcaag tattggcaat ggattccaat 420

tcctgaatct an 432

<210> 4373
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-G7

<400> 4373

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acaacgttaa gttacgtagc cacctagata agtttttagt cgccgacgat gaccaagaaa 120

ccatccgtca aagccgtaaa ggagatgcac ggcgtgccgt ttggacggtg gagcccgtcg 180

tcgataaacc taatctgata aggttaaaga gcagccacgg cacgtactta acggcgagca 240

acaaaccgtt attgttaggt atgaccggtg agaaagtgac tcaaacggcg tcgtttaaca 300

agctgatgga ttggcaaacg cagtgggaac cggagcgaag atgggtttca ngtgaagcta 360

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tgt 423

<210> 4374
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-H11

<400> 4374

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cgagtttttc cctatccatc tccgggtacg actttttctc tctgtttcna atcctacgcc 120

gcgatgttgt ggatggtgat tttctgtgtt ccgatctagt cttaggtttt ccttttgtaa 180

ttcctgaaat gggttttgat ctgatttgaa ccttatcgat tttccgattc atttttaggg 240

ttcttcactt tatctattgt agtttggttt caagttggtc gtcgggtant tcaatttttc 300

ttcntttggt ttgtttcaat gtctcattag caggctttac gttgcacacc agatgtctgt 360

tgatctctgc angaagaatc catcttttcn ttggtgtgac tgtggttata tgancagggg 420

gaagt 425

<210> 4375
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-H12

<400> 4375

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angggcctcc aagcangttg gaaggcggga gcgtgctaaa ccggatccat cgaagcacca 120

ccacaggtct catcttcctc attctaagaa aatcgagacc gaagaanaga ggaggcttag 180

gaagaagagg gagttagaga aacaaaggca agacgaaaaa catagacagc agatgaaaaa 240

ttctcacaag tctcagatgc ccaagggaca caccgaggag aagaagccga cgcccctact 300

caccaccgac agggtcgaag aataggttaa agaaaccaac caccttcatc tgcaagctca 360

agttccggaa tgagctccct gaccctagtg cacaagctta aagcttatga ccctttaac 420

ngggat 426

<210> 4376
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-H2

<400> 4376

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tcgncgctgt cgcnnatcgg anagatgggt gtcgatttgg aatcggtgtc tcgaagcaac 120

ctcnggagct attgggtcgc ttctgagtac aacgatcttg tatcctcttg anacatgtna 180

atcaaagttc caagccgagg ttcgagctcg tggtcancaa anatacanat atctttccga 240

tgttatgtgg gaggcaattt ctaaaggaca acgtcttttc actgtatcaa ggccttggaa 300

ctaagaattt tcagtctttc atttctcaag ttcatcgact tttatatgct atanctattt 360

caagagaatt cataagtgga angactggtt ctaaancaat tggggctang gctaatttgc 420

tcattgcc 428

<210> 4377
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-H8

<400> 4377

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nnnnnnnnnn nnnnnnnnnn nnnnnnnntg gtcttatgat ctcatcaaac ggagctttaa 120

tcgaacaaca accatcagtc gtcgtgaaga aaccaccggc gaaagatcga catagcaaag 180

tcgatggaag agggagaaga atccgtatgc cgattatatg tgctgctcgt gtttttcagc 240

taacgagaga gcttggtcat aagtcagatg gccaaacaat tgaatggtta cttcgtcaag 300

cagagccttc tattatagct gcaacaggaa ctggtacaac tccaagcgag tttctcaact 360

gcttctgtct ctatccgtgg agccaccaat tctactcttt agatnata 408

<210> 4378
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-H9

<400> 4378

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aaggtttgaa atcatggagg tcgttgatat tgatgcccga gctgctaagt tagggattga 120

ttggtctcag gttaattttg attccatcca acttcctcct ggagaagact ttgggatcga 180

gagtgatgat gaagctgttt accaggatga ccagtctgaa ttcgacactg gattcggtaa 240

cattatcgtg gtcgatcacc tccctgttgt tcccaaggag aagtttgaga aacttgaagg 300

tgttgtcaag aaaatttaca accagttagg tgtgattaag gaaaatggac tgtggatgcc 360

tgttgatccc gataccaaga tgacattggg ctactgtttt aatgaattca acactccctc 420

anggancccа aaaacgccaa aggga 445

<210> 4379
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-A11

<400> 4379

acgcgtgggc ggacgcgtgg gcccaaaccc aaaggatgct agtcttttgt tatcgcttgg 60

tantttcgct gatgtttatt tccctccaag caagagatca cgtgttgttg cacctacgat 120

cttcagtgct ttcgagaaaa agccagtttc cattgatgtg ctaccagatg agtgtctttt 180

tgagatcttt aggcgtttgt ctggaccaca agagaggagt gcttgcgctt ttgtctccaa 240

acagtggctt acgcttgtaa gtagcatccg tcaaaaggag attgatgttc cttccaagat 300

aactgaagat ggtgatgatt gtgaagggtg tttgtctagg agcttagatg ggaagaangc 360

aacagatgtt agattggcag caattgctgt tgggaactgc tggtcnttgg ggactggnaa 420

aatgtc 426

<210> 4380
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-A12

<400> 4380

nccacgcgtc cgcggacgcg tgggattgag atcatcgnca tgtatccgat ccaacgccga 60

aagtacagag atggaattga caacctttg gtcctcttga tcggtggnnn ccccattgcn 120

atgcctacag tcttgtccgt gaccatggct attgggtctc acaggttgtc tcagcaaggt 180

gccatcacca agcgtatgac tgccattgaa gagatggcag gaatggatgt cctgtgcagt 240

gacaaaaccg ggacactaac cctcaacaaa ttgaagtgtg gncaaaaact tggtcgaggt 300

tttctgcaag ggtgtggaga aagatcaagt ccgantatnt gcagctatgg cttccagggt 360

tgaagaanca gggatgccat tgatgcancc atggttgnga agctgctga 409

<210> 4381
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-A4

<400> 4381

aantgttacg cctgccggtt tcggtcgnan aattcccggg tngacccacg cgtccgctct 60

aaacaagctc ctcagtttga ctttccaact actccttttt ctacttagtg tttcatcgga 120

atctccatgg atcgccgaag atacgtctca aatccagacg aagctcctcg aattcgcgaa 180

gagtccggag gtcttcgatt ggatggtgaa aatcagaagg aaaatccacg agaatccgga 240

gcttggttac gaagaactcg agaccagtaa actcattagg tcggagctgg aacttatcgg 300

aatcaagtat aggtatcctg tagctatcac cggtgttatc ggatatatcg gcaccggaga 360

accgccattc gtcgccctga gagctgatat ggatgctttg cctattcagg aaggtgttga 420

gtgggaagca caagagcaaa atcgctggga aaatgcaagg cttgcggnga tga 473

<210> 4382
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-042-Q1-E1-A7

<400> 4382

ggaccaggtc gtttaataca gaacgtgaca cagttcgctg atgctcaatt caaacaattc 60

tctactcgtt atggacaaca agttataaga cattctcgat tttccaatca agctcgtctt 120

gtctcctttc actctcgcct ttgatatcgc tggctctgca cctcgtggtt ttggcatccc 180

tgagttcatc tccaaaattt cgtatctctc tgtttttgcg gttgctacgc ttggaactta 240

tgacattgca ttggatttgg gaaagaaagt catatgccaa agggattgca aaacttgtaa 300

tgggtggcag gcattacggt gcactatgtg caaaggaaca gggagtgttc attaccaaat 360

caaagattac aacttgagaa gtggagagaa accaacagca gattgtgtcg caaatgctat 420

agtt 424

<210> 4383
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-A9

<400> 4383

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aaacagaatc tgtatcagga aaggggaaga gagtgattgt tatcggcggc ggaatcgccg 120

gctctctcgc ttcgaaattt cttcaattcg attccgatct caccctcatt gatccgaang 180

agtattttga gattatttgg gcaagtttaa ngtcaatggt agagccagct tttgctgaaa 240

gatcggtgat aaaccacaag aagtatttac aaaatggtcg tgttgtgact tctccagcgg 300

ttaatatcac agacaccgat gttttgaccg cggatggtcc tgtccttggg tatgattatc 360

ntgttattgc tactggtcac aatgatgtgc ctcccaaaac taagcaagag aaattatccc 420

aataccaaac agaacatgag gaagattaag t 451

<210> 4384
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-042-Q1-E1-B10

<400> 4384

acattgttac gccgccggta ccggaacaaa attcccgggt cgacccacgc gtccgattct 60

ccactctctg cttatgttaa cgtagagaga gacggcgacg tagaaggagt aggaggagga 120

ggcttcgtcg acaatgcgag aatggctcag tatagacaat caggaacaga gaggtttttg 180

ggaggtcgaa gcggttacaa tccttatgtc aacggtggag cttcgtcaga tcacgtagcg 240

atcgggatcc gtaacggcgg tggtagtaat ttcggagttg taactcagca cgggaaagct 300

agtcgatggc ggcgatctac tcgattagat aggaatcgtc gttgtggtgt tggctctttg 360

gtgtttgttc tttgtgttgt gctcgttgtt tgtgtctcag cttactatta tttctccggt 420

tatactaatt tcggcaaaag atgataaagg aattgataca gctgaaggtg attttcctac 480

gaatgt 486

<210> 4385
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-B2

<400> 4385

ttacgccngc cggtttcggt cgnaaattcc cgggtngacc cacgcgtccg cccacgcgtc 60

cgcccacgcg tccgcccacg cgtccgcgga cgcgtgggat cctcttaatc ggcttatcgg 120

atccgaatcc ggacccgaaa gcctgaaaac ccgacgatta attgcacgat gtccgatgct 180

ccgtcgtctt ccccggatgc cacggcgtcg cactggtgct atcactgcaa caaacgcgtc 240

gtcgttgaaa ccttagatga ctttgtcgtg tgctgcgaat gtaacaaagg tttcgtcgag 300

tcaattcaac cgactcccgc cgcttattca tcgccggcgc caccgcagcc actttcccca 360

gatctgaatg tagaagactc cagtattggc tcgcatttcc tccaagatgc tccgcttgtt 420

agcccangcg ccttctcaac gttcaacaac aacgaaaacc ctggn 465

<210> 4386
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-G3

<400> 4386

angcgtccgg tctaaattcc tcgggagtct taagtcgtat gtgcgtgagg aagatgctgc 60

tgtgattttg aaactcggtg gtggtctttg tattgtgatc ttttgtcttg attggatcgt 120

tcttgtgtgt gctttcttct tgaagtacta tgcttatgtc gatggtggtg atggcgttgc 180

gatgaagaga actggtaagg ttcagagtga ggagaatccg aaggactggc catggccgtt 240

ccaagtttaa agtttgtgtc cttttgtttt gtggtgagaa ctgttgagtt aagatcaata 300

tcaaatgttg gttttaaggt tctgtttcgg tggggtatta ttgtgatttg ttcatttgtt 360

ttttgaagtg tttgatgtaa ttcgtcaatg atctgttaca taatataaag tcctttctaa 420

aaa 423

<210> 4387
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-D5

<400> 4387

aacaccatcc aaccaccacc tccagagcaa agaannnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnattct gttggttttg 120

caatggtttg gaggttcgtt aatggcgtca tagactcggg agattaaggg agaacaagta 180

ctctgcatct tctggatttc tcactatttc tccttctcta gaggaatagg cgagaaattg 240

agattaataa aaaggggtgt tttttggttc tccttcgttt gtataaagcc tgccgcttct 300

taaggttctt tggaaattct caagtgatgg aggaaaatct ggtttacttc gcatgagcta 360

ttaacgaaat ttcatcatga ttgtctcact gtcacacttg tgggagtatg cgtgaatg 418

<210> 4388
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-041-Q1-E1-D6

<400> 4388

gagagcttcg ttgtcttccc cattgcaatt agggttttca aaacgggtaa tcgaattcgg 60

tggtgctcgg ctttgaaatt gaggatgaga tcctttccac ttccttctac ctgctgacaa 120

tgggcaactg cggtactaga gacgaggctg ccgtcttcac tcctcaagct caagcccaac 180

agctccagaa gaagcactcc cgatccgtct cagatctgag cgatccatcc actcctcgct 240

tccgagacga ctctcgcact cctatttcgt atgcccaagt catccccttt actttgtttg 300

agcttgagac catcaccaag agcttccgcc cagattatat actcggagaa ggtggtttcg 360

gtaccgtcta caagggttac attgatgaca atctccgcgt cggcctcaag tctctccct 419

<210> 4389
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-D9

<400> 4389

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atcagcccaa ggaagatttt gaggctgctg caatagagaa agagatatca gaacaagaac 120

acaagttgaa tgatctcacc gatgtccaag aagatattgg tacatatgtt aaagtgcaag 180

ttcctgatga tgaaataaaa ggtgatggcc atgattcagt tgcagcacaa aaggaagaaa 240

ctagctcaat agaggagaag agagaggttg aacatgtcaa ggcagagatg gaagatgcaa 300

tcaaacatga agtttccgta gaagagaaga acaacacatc tgaaaatatt gatcacgaag 360

ctgcaaaaga gatagagcaa gaggagggta agcaaacaaa tattgtcaag gaagagatnc 420

gagaagaaga gaaagggatt atc 443

<210> 4390
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-E10

<400> 4390

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gtgggatgct tctgaaacca ttaaccttaa gcaacgatga attcgaagtt gatgagtcgg 120

atgaactggg cttctttgct cccttctata aagatttcag gataaggttc tctaaactgt 180

tgagtgataa attcaagaag atggattata aacttgcaat gagtgttttg aaccctaaga 240

tcaacttccc anaggttgat ttgactggaa attcaccaga tggatttttg aagaaactcg 300

acggagttct ttcaccttat gatatggaga gattcagagc atacactgcc aatctcgttg 360

acttcaatct ggtttatgac atctgcaaaa ctctagctca tcattatttt caagagaagc 420

tcccagtctc gctgtcgtan gttcaagctt ccggtacccn gtgtttgggc ntgcaagagt 480

caaatt 486

<210> 4391
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-E12

<400> 4391

acgcgtccgn tttttctttg tggtttgatt gattctttga agcagcaacc aaagatgatg 60

aacagctgtg gaatccaaca aaacgctttt gaagagatga ggagaaacgc cgccgtttct 120

gatcggagag acgccgtgat ttgtcctaaa cctcgtcgtg ttggtgctct taatcaccac 180

tcttctcgat ctctccgttg gcaactcaat catcagatgg aattatgtga atcgaattca 240

ggaagtgaga ttttggattt catcctcaca aagggtggtg gtggtggtgg tgagcaagat 300

cagacgagga cggtgatgac gccacctctg ttctttacag ggtcacctcc aagtagagtt 360

tctaacccat taacaaaaga ttcgcttttt cgagaagagc ttctcaaggt ggcttctccg 420

agtccatcga ctccacgagc aaa 443

<210> 4392
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-041-Q1-E1-E6

<400> 4392

gattatcgtt cacttaccag ctcttatatc tgctggacgc tactggattt tattctcttg 60

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cctcaaggat ttcaaagatt cggaatcatg agcgtgagag acttcgtggt cctccatggt 180

taaaaacggt gcaaggggca cttcttagct gctcatatgc tgtgcttgac tatgcccaaa 240

ccggtctaat tgcagcagtt tttatcttca aaatgatgga atggtggtat caatccgctg 300

aagagagatt atcagctcca acagtgtacc ctccacctcc acctcctcca agccccaaag 360

atggccaaag aaggaatccc tctacctcca agacagattc ctctgtgctt tttgcaagca 420

ta 422

<210> 4393
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-F1

<400> 4393

cgggtcnacc cacgcgtccg ngagaagcag agaaccgtag actcggtttt cgcagcagca 60

aagaccactg ctcaaagagg agacgcgttg cacatcagaa tcgtagcgat caagaaactg 120

ttggcaaagc tagaagcaga gaaagtggac gttgattcaa agttcacctc tttaacgacg 180

agtctgtcag agcttctcaa ggaggcgtca caagcttacg aagaatatca cgangcggtg 240

cataaggcaa aggacgagca ancggctgaa gaatttgcgg tgganacnac aaagagagca 300

aaacatattg ggttnagttt cctaattcac ttaattgaac taatgagatt ccntgatttg 360

tgggttaaag cncaatgttc aattaaattg tgggtcctgn gtttaanttc cctgngttgn 420

ntttgtttga gaacnttgtt tggttgccct aaaa 454

<210> 4394
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-F10

<400> 4394

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atgacgtggc taaaacaaat gtggtcaagc attttagtgc tagccgtggt ggtgatcgga 120

gccagagctg tgcccatcac gtatcttgaa tctgcagtgg ctaaaggagc tgtgtgtttg 180

gatggtagcg cgccagcata ccatttcgat aagggatcgg gctcaggagt gaacaattgg 240

atcgttcata tggaaggagg aggatggtgc actgatatag ctacatgcgt tcaacgtaaa 300

agtacaatga agggttcttc taagcttatg aacaaagact ttggtttctc cggtatcttg 360

ggtggcaagc aaagcaccaa tccagacttt tacaattgga atagaatcaa agttcggtat 420

tgcgatggtt catctttcac cggtgatata gaanctgttg attcgacgca caanctgttc 480

tt 482

<210> 4395
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-F2

<400> 4395

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ggcggacgcg tgggctggtt tgggtgctga gataatcgga accttcgtcc ttgtctacac 120

ggtcttctcc gccactgacg ccaagagaag cgctcgtgac tcccacgttc cgattttggc 180

accactccca atcggattcg ctgtgttctt ggttcacttg gcgacgattc caatcaccgg 240

aacaggaatt aacccagcta ggagtcttgg agctgcaatc atctacaaca aggaccacgc 300

ttgggacgac cactggatat tctgggtcgg accattcatt ggagcagctc ttgcggctct 360

ttaccaccaa cttgtcatca agagccattc cattcaagtc cagattctga tttgatttcc 420

ttccttaata aaaacttcat tgttgcatcn tgggttgtaa antnaagctt taaaaataat 480

tt 482

<210> 4396
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-041-Q1-E1-F5

<400> 4396

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cttttccggc aaagaaaggg ccggagatgt ttcaaggaaa agtaatgcat tcgatggatt 180

actgcaagtt agagaaagaa gaagcttcta ctctcctcag tggcaaaaaa gtagccgtca 240

tcggcttcaa gaaatccgcc attgatttgg ctttagagtc tgctttagct aatcaagggg 300

aaggaggaaa agcttgcaca atggtggtga gaacaactca ttgggggatt ccacattatt 360

ggggtgtggg gcttaacatt cctccctgtt ctactcctcc aagagcttct caagttcctc 420

caag 424

<210> 4397
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-041-Q1-E1-F8

<400> 4397

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ctctcttccc aaccgtcctc ctcttagagt ttcttcttgt tcctccaggt acgccatcct 120

tggtgcaggt tttgctggaa tctctgttgc ctggcacctg cttaaggaga gtccaaaaga 180

gctgagatta agtgttgacg tatatgatga agttggcata ggaggtggtg cttctggtgt 240

ttctggagga ctcctccatc cttattctcc taaaggaaag ctactttggc atggtgctga 300

gtgttggaga gaatgtttag aagctcttaa atgtggctga aacagctgct tcttctagtt 360

accaatctac ggagaacaag agactttagc gagagtttcg gaaattttat ggttcgaag 419

<210> 4398
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-G10

<400> 4398

aagttccatt ctttttcaca aagccattgt gctgttttct ccatttggat caaaatggtt 60

gctgnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngc tttggtcaaa 180

cctgaatccg agacacgaaa gggcctttac ttcttgtcga atcttgacca gaacatcgcc 240

gtgattgttc gtacaatcta ctgtttcaaa tccgaggaga gagggaacga ggaagcagtc 300

caagtgatna agaaagctct gagtcaagtt cttgttcatt actatcctct cgctggacgc 360

ctcaccatca gtcctgaagg taaactcaca gttgactgta ccgaaaaaag agtttgtttg 420

tggaaacaca a 431

<210> 4399
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-G2

<400> 4399

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ttgggactga ttgtgaattc acttaaaacc cttgatgcgg ctgttccaca aggttgtcca 120

tgagcctana cgacgaccac actctgctca aaanattgct cttgttttag acagagcacc 180

caaacatttg caaccagatt tagttagtct ggttcccaaa ttggttgagc attcagagca 240

cccactggcn gctttagcac ttatanaacg gnttcaaaag cctgaagctg aaccancgtt 300

gcntgaacca atatacaatg ctcttaancc anttagaatg ngacantgna gtgtgggagg 360

acattctatc tcaagtcctt ttgaagcttt tgancnactt agatnangga atcctcttgt 420

nggcggccaa 430

<210> 4400
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-D12

<400> 4400

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ttctttaaat tttctaagag agagcctaag ctgtttaata tagtcatcta atatttagag 120

agatggtggg agagagaatg tggtggtggt catcatcgtc gacgaaactc cgatcaaacc 180

ttgaaagatt tctcagagga atcactccaa aacctccttc tttctcttta tcacagagct 240

gcaagaatga tttgaacagt ttgtggatcc atgagaacaa agatgagatt gaatatttca 300

ggcttagtga tctttgggac tgttttgatg agccaagcgc gtatggactt ggatnaaagg 360

tcgacttaaa caatggtgaa tccgttatgc agtactaagt cccgtatcta tccgccaatc 420

aaatctatac 430

<210> 4401
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-B5

<400> 4401

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aatgtcaata gagaaaccat tcttcggtga tgacagcaac agaggagtaa gtatcaatgg 120

tggtcgttat gtgcagtata atgtctatgg aaatctcttt gaagtttcta aaaagtatgt 180

tcctcctctt cgtcctatcg gcagaggcgc ttctggcatc gtctgtgctg catggaattc 240

ggagacgggt gaggaagtag cgatcaagaa gattggtaat gcatttggca acattatcga 300

cgctaagaga actttgagag agattaagct tcttaagcat atggatcatg acaatgtcat 360

tgccattata ngacataata agaccacctc agccagacan cttcaatgat gttcacatt 419

<210> 4402
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-B6

<400> 4402

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ggatatgcga ggagtgaaag tantctcaaa atggccaccg atgatagtta tggtgacatc 120

acaagtagcg atgggttcgg tgaatgcact tgtgaagaaa gctcttgatg ttggtgtgaa 180

ccatatgatc attggaaaat aataccgaaa ataacgttta ggctaatggt cgatcatttc 240

atcagtggtt tgctcggggc gagtttgatg caatttttct atttgcttgg tctgtcctac 300

acgtcagcaa ctgttgcgtg tgctttggta agcttgatgc ctgcaatcac ctttgctttc 360

gctcttattt tgagaactga gangataaca agatctaaaa gacccaagca ngaatgataa 420

a 421

<210> 4403
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-B7

<400> 4403

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atcgctggga aaaatctgat ggaagcagct tcaagttttt tgtgtagaag tattcggatt 180

ccgtcgacta ctacggcgac ggcggcgttc acgttcactc gaccgccgtt aaactacgtt 240

tgtgttgtcg gagttcgtgt tttcccgacg cggaaggtct tttgcagcgg cgttaatggc 300

ggctccagtg ttactaagaa gaagccacga aggaaaagta acgtttccga taaacttang 360

tttaagaaaa ttgagaagag gaacgataat actgaatctg agagtttaag tgttgt 416

<210> 4404
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-041-Q1-E1-B8

<400> 4404

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ttcacaacat ccaacaatcc tgatgtctgg attcctgcat acaagtcttc tcgctggtct 180

tcggtgttct tcgtgctcta cgtgctaatt ggcgtctact ttgtcacaaa cttgattctt 240

gccgttgttt atgacagttt caaagaacag ctcgcaaagc aagtatctgg gaatggatca 300

aatgaagaga agaatgttgg agaaagcctt tgggtcttat agactcagac aaaaacgggg 360

agattgataa gaaccaatgc attaagctct ttgaacagtt gactaattac aaggacgttg 420

<210> 4405
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-B9

<400> 4405

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gtctggtggc tatcctttcg ggattgttnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn agaaattcca catggcttcg tctttgcaac cttcangtta accccaatgt 420

tgggaaa 427

<210> 4406
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-C10

<400> 4406

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tcttcgttga tctctgtgga agaaacagat aagagaaaat cgcatgaatt tttttagaaa 120

actaggtttt aatccttcga ttgcaagcta cttcactaat acgagtcttc tgatctcaat 180

tcttagtttt tctcctcaat tgccgatttc tctctttctt ttcgagcaga aatcgttaga 240

tcctttatcg ctgtgtaata gtagtactaa ttttaataat cttgagagta attactccgt 300

tcattgttga atcatggagt ccggaggcaa aactaatcgt cagctgcgta aagctatttg 360

cgtctcaaca gacgagaaga tgaagaagaa gagatcacct tcagtgatag tgattgggag 420

gtggtatggc tgggaatttc aagccgctcg cactcttcaa gatgcttccc ttcaaggttg 480

ttgtantgg 489

<210> 4407
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-C12

<400> 4407

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caacaaagaa aaaaaaagtc ttcttctttt tttacaagtc tgagaatttt ctacagaaac 120

aaaaatctga ttgtttttcc cactttgcat ctgttttgag gatgccagct acggattttc 180

aaggatcatt tggaaggtcg ttgctaagtt tacggcgaga ccaagttgac tcatcaacag 240

tcgtctccgg aagtagtagc caccacgagc caagcaccat ggaggttgag ctagattcgt 300

ttcaaagaca agtcgctgag aaattcatcg atctcaacgc ttcttcaaac gaccttctct 360

ctctcgaatg gatcggaaag cttcttgatt ctttcctctg ttgtcaagaa gagtttcgag 420

ctatcgtatt caaccaccga tctcaagatc tctaaatctc cgatggaccg tttganttca 480

a 481

<210> 4408
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-C2

<400> 4408

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ccgatcacga gatacaaatt tcactttctg atatcttgga tcttccgatc acnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnag 180

agaagaaacc atgaatgctt tagctgcaac aaacagaaac ttccgtcatg catctcgaat 240

cctgggtttg gattcgaaga tcgagagaag tcttatgatc ccatttagag aaatcaaggt 300

tgagtgtacg attcctaaag acgatggcac tctggtttca tacatcggat ttagggttca 360

acatgacaat gctccgtgga cccatgaaag gtggaatcag atatcatcct ganggttgat 420

tca 423

<210> 4409
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-C4

<400> 4409

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gggattaaac taacttctca ttctcattcc accttcttct tctttgttct tgtgtgctac 120

taaaaatcaa gaaagcacaa ggagacaaat aaacctatcc atttcattac caaacaagcc 180

gtacannnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc tctcttcaac tagacttatt actcggatca 300

gctattcatc ttaaaaacca aacttcattc aagacccaac agggagattc aagaagctta 360

gaagagtgga agcatatctc agcaaaatca acaaaccttc catcaaaaca atccacaagc 420

ccaagacggg agatgtaata gaatgtgtac cgtctcattt a 461

<210> 4410
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-041-Q1-E1-C5

<400> 4410

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atccaaagag aatcctgact gacgttgaac aaacacaagc ccttgtgcgt aagctagact 120

ctgagaaaaa aattgaggaa aatgttttac aaggttcaga aactgaaaaa tcaggtagag 180

aaaagttaca cagtggttct actggtccag ttgtaatcat aaggggggttg acatctgtga 240

aaggccttga gggtgttgaa ttacttgaca cgcttgttac atatctatgg cgtgttcatg 300

gtctggacta ttacggaaag gttgaaacaa atgaagctaa agggtttgcg gcatgtgaga 360

gctgaaggaa aagtttctga tgcaaaagga gatgagaatg aaagtaaatt cgactctcat 420

<210> 4411
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-C6

<400> 4411

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agcttttgac ggcgttgaaa atcaaatgaa cggtccagat tcatctcctc gtctctctca 120

agatcctcgt gagcctcgct cattattatc atcttcttgt ttcccaatca ccctcaagtt 180

cgttgatgtg tgttaccgag tcaagatcca tggcatgagt aacgattctt gtaatatcaa 240

gaaactatta ggattaaaac aaaaaccgtc cgatgagaca agatcgacgg aggagaggac 300

gatactaagc ggagtcaccg gaatgatatc acccggcgag tttatggccg ttcttgggac 360

catcgggaag tggcaaatcc tacgctacta aacgcagtcg canggagact c 411

<210> 4412
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-C8

<400> 4412

gttcgcagac tcggttttct ggtatggctt gtgaagctta tatatatttt gtcaaagctc 60

aaatcgagat ggctttagga aggtttgaaa atgcagttat ggctgctgag aaagctagcc 120

aaatcgatcc aagatgcaac gaagttgcta tgttacataa tactgttaca ttggttgcta 180

gggctcgtgc tcgtggcaat gatctttata aatcagaaag atacactgaa gcaagttcag 240

cttatgctga aggccttagg cttgatcctt gcaacgctat tctatattgt aatcgaacag 300

cttgttggtt taaacttgga atgtgggaac gctcgattga agattgtaac caagcgctgc 360

gttatcaacc aagttacaca aagccacttc ttcgganggc tgcctcaaat agcaagat 418

<210> 4413

<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-C9

<400> 4413

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attctttctt cttcattatt catttctctc gttattcgtt tcgtattttg tttgtgttta 120

tgattttacc tccttagttg ctgtgagatc aagaagtggt gaaagaaaag ttactaaatc 180

tggatgttat ttgattgtcg tcgttggtct tgagctatga ggagcgttaa taatagtagt 240

gtcgacaccg tgaacgccgc cgcttccgcc atcgtctccg ctgagtctag aacacaaccg 300

tcgtcggttc aagaaaaaaa ggggaagctg gtggagcttg tactggtgtt ttggatncaa 360

gaagaacaat aaaaggatag gccacgcggt gcttgtaccc gaaccagctg catcaggagc 420

tgcggtggct ccagtccaaa actcttcgan gcaattctac ttcaataatc aaggcccttt 480

aaaa 484

<210> 4414
<211> 294
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-D11

<400> 4414

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tccgcggaaa gccggtaccg gtcaatgcag atgagagtga agaaagttca aaagcatttt 120

ctgtggcatg ctaagccaga gaagtatgat atgtttcaca tgattcttca ttcaatttgg 180

tataaccgag ttttccaaat ttctgtttaa aaattttgtt caacaattca atgtacattt 240

tttacagata aaatttctga gtaaactcaa tttacaaaaa aaaaaaaaaa aagg 294

<210> 4415
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-B12

<400> 4415

ctgttatcct gccgcnaccg gtccaaaatc cgggtcgacc cacgcgtccg ntggctcagt 60

atgtcaatat aaacagtgga ttgttgaaga catatgcgtt tgatgatacc accattggat 120

catggatgat tggcgtccag gcaacatata tagacgacaa tcgcctttgc tgcagcagca 180

caagacaaga aaaagtgtgt tccatggcat gatcactgca tagatgatcc tcttgtccca 240

gagcaaagac ggcggtttct catcgcattc atggcgctcc gatactcttt tggggcagat 300

tcttggaccg gatactgaac ttatcattag ttttgttaga atgggagtat gattaggcca 360

ttcattacag tttatgatta gaggcatgcg tatcccttga gctttggagt aagaaaatgg 420

ggaaatggta tagatgtgaa tgaagtataa tttttccttt ggnatcatat caccatcaat 480

tgtc 484

<210> 4416
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-H11

<400> 4416

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cagacaagcc tttggattct gctgttctga gccgtatgaa gcagttttct gcaatgaaca 120

agttcaagaa aatggctctt agagtcattg ctgagagctt atctgaagaa gaaatcgccg 180

gcttgaaaga aatgtttaat atgatagatg cggacaagag tggtcagata actttcgaag 240

aactgaaagc aggactaaaa cgagtagggg cgaatctcaa agagtctgaa attctcgact 300

tgatgcaagc tgctgatgtg gacaacagcg gaacaataga ttacaaagag ttcatagctg 360

caacattaca tctaaacaaa atagagagaa cagggacaat ttgtttgcan gcttt 415

<210> 4417
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-H12

<400> 4417

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gctcttctca ttagatcctc tctctctctc tctcaaaaag agaaaatctc agagccagaa 120

gaagacaaat atatcttttc tattcctcag atctctgaaa tcgaagtttc tcgaactgtt 180

ttgttttgtt ttttttccga tgaggtgtaa gagacacaca gtagatttca gtagcagtat 240

cggcgtttgt gcttcttgtc tccgtgaacg actctttact ctcgccgttt caaccgccgc 300

gtctgaaaac gacgataacg atcatcgtca ttctcgtatt tctccacctc ctctgctttt 360

tcctcgttct gtttctcctt acgttgctcc tagaaaatcn gacgccggaa ccg 413

<210> 4418
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-H4

<400> 4418

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tcactaaagc gatcgtaccg atcttaatat ctttnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnagcaa taacggtggt tcgaacccat 180

ctgcaggaga agaatttaag gatatgatta agggagtgac taagttcttg atgatggtga 240

ttttccttgg aaccatcatg ctttggatca tgatgccaac actaacctat cgaaccaagt 300

ggttgccaca tctgcgtatc aagtttggaa catccactta ttttggtgcc acagggacga 360

cgcttttcat gtatatgttc ccaatgatgg tcgtagcttg tttgggatgt gtctatcttc 420

acttcaagaa tcgaaagtcg ccacaccata tccataaggg agacgaaggg aaggantgtt 480

ggagtta 487

<210> 4419
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-039-Q1-E1-H5

<400> 4419

acgcgtccgt cattttccga tagaagaact tttttcacgg cggcgataac aaatcaccgg 60

ctaataaagg aaggaaaaga agaagaagag aagctatgac aacaatcagt cttcgcaaga 120

gtaacaccag actcccaccg gaggtgaatc gcgtgctcta cgttcgtaac cttcccttta 180

acataacgag cgaagagatg tacgatatct tcggcaagta cggcgcaatt cgccagattc 240

gaatcggttg cgacaaggcg acgaaaggta ctgccttcgt cgtttacgag gatatctacg 300

atgccaagaa cgccgtcgac catctctctg gcttcaacgt cgcgaatcgg tacctaatcg 360

tgttatacta ccaagcacgc gaagatgaag caagaagttt gaccagaaga agagtgaaga 420

tgagatcacc aagttgcaag gagaagtatg ggagtc 456

<210> 4420
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-039-Q1-E1-H6

<400> 4420

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tctagattcg attccgattc caaagaacta gtctccggcg tgtaatctct gatcgttgaa 120

gatccaagct acgccgcatc ttactcgccg gcggcttgaa tcatggctga taggagaaac 180

aggtgtaacc agatcctcct tttagcatac cagagttttg gcttagtgtt tggagatttg 240

agtatttctc ctctctatgt gtataaatgt acattctacg gaggattgag acatcaccaa 300

acagaagata cgatatttgg cgcgttttct ttgatatttt ggaccatcac tctcctttca 360

ctcatcaagt acatggtttt tgtgttaaag tgcaagatga caatggtgaa aggagggatc 420

ttggcttgga agccttgcc 439

<210> 4421
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-H8

<400> 4421

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ttcaccttct tcttcttcaa gtgtgctcag aaggcaagag ttcttggtac gaacgctttg 120

tgggtcacca atcatcagag caatgagttc cacatcagag gccgacgctg agagtgttct 180

tagaaccgtg acgccatcgc tcgatctcaa acgacacaaa ggccaagctg ggaagatagc 240

tgtgattgga ggatgtcgtg aatacacagg agctccatac ttcgctgcca tttcaagctt 300

tgaaaatcgg tgctgatttg tctcatgtat tctgcacgaa aagatgcagc tcctgttata 360

aagaagctat agtcctgagc ntatagttca ccctggttct tgaggaatca tatancatca 420

gtcaactcaa ntgaagaaga taaaagagaa gttcaagata aatgcttggg anaagtcggt 480

aaa 483

<210> 4422
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-A1

<400> 4422

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ggcggatcta ctcacttggc cggagaatca accgtttgag tctcccgccg ccgtatcttc 120

tcgctccgcc gccagatcgc accagccgtc ggatggaata agcaaagtcg tatttggagg 180

acaagttaca gatgaagaag ttgagagctt gaanaagagg aagccttgtt caaattacaa 240

gatgaaagag atcacaggga gtggaatatt ctctgtgtat gaagaaaatg atgattctga 300

gttagcaagt gctaattccg ccacanacgg caaatcaaga actttccagc aaccaccaag 360

cagcaattat gagtcacatt tcatttggag aagaaganat tgttacaccg aanaagccaa 420

cgacggtgcc ana 433

<210> 4423
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-A10

<400> 4423

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ttcggaggga ttagcaagcg ttgattcntg gttatatcgc caaggtttca acnttgattc 120

atggntgctt tctgatacct tctctcacga caacgatttg ctcgcaagag ctctccatac 180

caccgtcaca gnccctcata ctctcactcc ttcctctgct ttcttcgatt cctccgctgt 240

ttctcaccct tcttccacta nacacactct cctctagcgt ctccggtgct tctgatccaa 300

gaaatcatcn gcggaggagc taaacggaaa cgtaanngcc ttcttaccga cngtaaagcn 360

gccaagcgcn gcgctcgtgc ttccaagaaa tctcagacta ctttcataac ggcngattc 419

<210> 4424
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-A3

<400> 4424

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ttatggacct tacggnacca aatccggttt ccangatttc tgctccggaa gccaccggta 120

aacagatctc cggtttcctt ggtaccancg gcaatgttct caacaccatc gacgttcact 180

attctcccat acctactgga ggaactggca ccggaggaac nggcaccggn actggnaccg 240

gaactggcac tggaactggn actggcaccg gaactggcac tggaantggc actggaactg 300

gnaccggagg aactggcact ggaactggca ccggtactgg gaggaactgg cactggaact 360

gngcaacgga ngaactggca ctggncaccg gcactgggga ctggcaatgg gaacccggca 420

ctgggantgg gca 433

<210> 4425
<211> 501
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-A5

<400> 4425

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cgtgggtctc actaccacga gctcttcatc tccacttcct tctccgacaa cgcttcngtc 120

gctctaaacc tccacaccct cacgcgccgc cctcatgtag ccggtacagt ggccaacgct 180

gaagcagcgg aatatgttcg ctctgttttc acctcctctg ctctcaaatc acacgtcgtt 240

gcttaccaag tgtctctaac ttacccagtt catcgctctt tggtactaac gccgacagac 300

tctgcaaagc caatcacttt cttgctggaa caagaaaaac tcggagacaa tccttatgct 360

aatgaagtga tgcctacttt tcatggatac gctaagtcag gtaacgtttc aggtccagtg 420

gtttatgcaa actatggacg agtggaagat ttcgtgagac tcaaagaaag atatgggcgt 480

taatggtctc cgggagcccg t 501

<210> 4426
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-A9

<400> 4426

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tcaatactca acagtcaagt tgcaagggcg tttagtantt ctactgctgt tgangangca 120

tcaatatctc acattccagt gctctcaggg tttantgtcc ccaaattagt tctacaagtg 180

gtgtctgttg attcantttt ccggataaca agtccaagct ttaatgagct tgtcattctc 240

aaggatactg ctttttctgt anacaataaa gctatganaa tttcacnagg aatgcctaat 300

gatgcatttt tctcatcatc gttaccangc agattgtctt cagcgtngac accantgaac 360

tctatttcaa ggaacctgga aaaaactgcg gtgggntccn cgaaatgnca aggttctacn 420

catccaaaga agatgggtg 439

<210> 4427
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-B1

<400> 4427

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cgtattaaac ttggnccatt ctctctagcg ctttttgctt atggcaaagc taatggttta 120

cttacaatga anganttcaa acgaagccgg ctcctcaang tatgttggaa atnacaatgn 180

tccagacaaa tgttnatana aaattccgtt tcatgttgtt ttgactccaa tcaagatggg 240

gaaattnagt gtggatgact ttttgcgggt tctgcatcca aagaaanaag gaccttgcaa 300

aagncaattt gcaaaaagga ttggccccgg tactcctcaa taatggatgg ggaaagggtc 360

caaagaaact ggttcctcaa ccggggaaaa actcctcctt cctccnttgg ggggcntaac 420

cgatgaaact ccgaagacta ttttttgaag gtccttgggt tcaaacgaat tgagcccaa 479

<210> 4428
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-B4

<400> 4428

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tgtctctgtt ctgttccttg cctgcncgag gtgtgcatct tcttggaatc agctgacttt 120

gcggtcaatc ggatttcttg ggattgtttg gagaaacttt ggaggtgatg gacaacanna 180

atgatcagga tattgatgtt agatcagtgg ttgaagctgt ttccgccgat ctttcctttg 240

gtgctnccct ctatgtgggt tgaagaacat gtgcatgcgc tgccaacaaa atggaacaan 300

cagattccta ttgaccttaa atccccaact caagnaaagg cntaataacc tgcaattgga 360

tntccgcaat tnnngggaaa ggaataatga aattcaattc ccnaggcaaa atcnaacccn 420

ttgaannegg tannanccaa aaggtccaac ctgggaagtn aaaataattg acccgcaaat 480

tntgaaaa 488

<210> 4429
<211> 449
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-B5

<400> 4429

acgcgtccga agtagaagag attcgattct ccattatctt ccttctaaat gccttcccta 60

atgttatctg nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnng tgaancagcg attcaagctc gganaagang angagcagca nnaangttaa 300

gttgggcntt gaggatgttg aagttgataa ccctaatgcg gtttctaact ttcggatttc 360

tncgcctttg agggataagc ttaaggcnaa ntggtattga agctcgtttc cncgangcaa 420

gcttccangt tcggatatgg gtccccgaa 449

<210> 4430
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-H10

<400> 4430

taacttcgca gactctgttg attagtcaac acagatcaga atctgaggct ttggccgaga 60

cgagagaagc agaagaagaa aatggcggag actgtacatt ctccgatcgt tacttacgca 120

tcgatgttat cgcttctcgc cttctgtcca cctttcgtca ttctcctatg gtacacaatg 180

gttcatcagg atggttctgt tactcagacc tttggcttct tttgggagaa tggagttcaa 240

ggacttatca acatatggcc aagacccact ttgattgctt ggaaaattat attttgctat 300

ggagcatttg aagctattct tcagctgctt ctgcctggta aaagagttga gggtccaata 360

tctccaaccg gaaaccgacc agtttacaaa gggcaatggt ccgggntgct taatt 415

<210> 4431
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-F4

<400> 4431

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ctctttctca aaatcttgtt tatttttta ataaaacaaa gaaattaaaa agatgatggt 120

tacattagta ctaaagtacg tcctcgtgat agtcatgacc ttgatattaa gagtcctata 180

cgactccatt tgttgctact tcctcacacc aagacgaatc aagaagttta tggaacgtca 240

aggcatcacg gggcctaaac cccgtctcct caccggaaac atcattgata tctccaaaat 300

gctctctcac tccgcttcta acgactgctc ttccatccac cacaacatcg tcccacgcct 360

tcttcctcat tacgtctctt ggtccaaaca atatgggaag agatttataa tgtggaacgg 420

gacaagaacc gagactatgc ctaacgggag accgagatga ttaaagaant ggctaacgaa 480

gcacaatccg ggtcaccgg 499

<210> 4432
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-F5

<400> 4432

ctgtcnacgc ctgcccgtaa cggtccgaaa attcccgggt cnacccacgc gtccggaatt 60

gatctaagag gaattgatcc aacatgggta acacagataa gctgatgaat cagatattcg 120

atttgaaatt tacgtcaaag tctctgcaaa ggcaatcaag gaagtgtgag aaggaagaga 180

aagcagagaa attgaaggtg aagaaggcta tcgagaaggg taatatggat ggtgctcgga 240

tctacgctga gaacgccatt cgtaagcgta gcgagcagat gaactatctc cgtctcgctt 300

ctcgccttga cgctgttgtt gctcgtcntg atactcangc taagatgacc accatcacca 360

aatccatgac caatatcgtc aaatcccttg agtcntctct tgccacaagg aatctacaga 420

agatgtcaga gacaatggnt tcaatcnaga aacaatttgt gaacatngag gtccaanctg 480

agttcaaggg gnaaaggca 499

<210> 4433

<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-F8

<400> 4433

acgcgtccgg ttttttttta ccggtcaccg gtttatggaa tgactgatta ccggctacaa 60

ccaacgatga atctttggac caccgacgac aacgcttcta tgatggaagc tttcatgagc 120

tcttccgata tctcaacttt atggcctccg gcgtcgacga caaccacgac ggcgacgact 180

gaaacaactc cgacgccggc gatggagatt ccggcacagg cgggatttaa tcaagagact 240

cttcagcaac gtttacaagc tttgattgaa ggaacacacg aaggttggac ctacgctata 300

ttctggcaac cgtcgtatga tttctccggc gcctccgtgc tcggatgggg agatggttat 360

tacaaaggtg aagaagataa agcaaacccg agacgggaga tngaattcgc cgccgttttc 420

nactcccggg gggttaagga gtnc 444

<210> 4434
<211> 497
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-G1

<400> 4434

ttaccctgnc gtaccgctcc gaaattccca ggtcgaccca cgcgtccgca aaaccccaaa 60

ctctctctac gaaggcggat gcacgcttct ctgtctccct ccactctcga gtctcgtccc 120

ctctgtgtgt gattatcttc tttggtgttg ttgatgctgg agatctctta ttcagattga 180

tcacgcctga aaggtttatt aggatttggc aaaggatgga tagaatcaac ggtctatcag 240

atctcttctg atttgaattc tagggcgttt gtttggaaga atcattgctt ctttggttga 300

ggatctttgt gaaacgctgg gattttgtgt tctagacttc tagggttttt gaagcaagct 360

gtagcataag gaaaattttg agaatgaaag gtgaaagaga agttaagaat ggtgtttctg 420

aagaagaaga gagaagtgaa agaggaagag agtgatggga acggtccgaa tcaacaactc 480

caacaactaa ggttnaa 497

<210> 4435
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-G10

<400> 4435

gacaactatg gcatgaagtt gagttgggaa gagcagtttc tgtcagaaat tctagatcaa 60

aaggacctaa agataagcca attaggtgtg gtgaaacaga ggctaaagca taagaaagta 120

cttatcgttc ttgatgatgt ggataatcta gagctattaa agactttagt gggacaaacc 180

gggtggtttg gacctggaag cagaattatc gtgaccactc aagataggat ccttctcaag 240

tctcacaaga ttgatcatat ttatgaggtg gggtacccat cgagaaaatt ggctcttcgg 300

attttatgtc gatctgcttt cgacagaaac tccccacctg atggtttcat gcaacttgca 360

aatgaagtta canagcttgt tggtaatcct cct 393

<210> 4436
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-039-Q1-E1-G12

<400> 4436

caagtcgtct ttgttccctt attgatagaa taatcaaaaa tccgagtcgg agacgacgaa 60

gacccgagtt ccagctatta actatgcaga taccatcaag agagcatagt ttcattctat 120

ttctcttcat atctgctttt gtaattggtg ctgcgtctgt acctgtacct gattctaatt 180

gctacgctct cgacaattca agtcgtcttg tcgattttag cagctggatc ggtcatccat 240

ttgaatatga tggcaaggaa tttgatttgg tggttagatt ttgcaaggat gtggaaacaa 300

gagggcaggc gggatatgtt gattttggga cgatttgacc cgttaagcta ctttgtttct 360

agttctgaaa atttcgattt cgtgcaaggg ttttaccatg ggcgaactgt caaa 414

<210> 4437
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-G2

<400> 4437

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gaaaaggatt gacatttgac agcggtggct acaacattaa aaccgggcct ggctgcttaa 120

ttgagctcat gaaattcgat atgggaggtt cagctgctgt tcttggcgct gcaaaagcca 180

ttggtcaaat taagcctcca ggtgttgagg tgcactttat tgtcgcagct tgtgagaata 240

tgataagtgg tactggaatg agacctggag atgtcctcac agcctcaaac ggaaagacga 300

ttgaggtcaa caacaccgat gctgaaggtc gactaacact tgcagatgct ttagtttatg 360

cttgcaacca gggtgtcgat aaggttgttg accttgcaac attgactggg gcttgtatta 420

atgctccttg gnacatcaat ggcaagcata tatacaccta atgataaacc ttgcaaaagg 480

angtg 485

<210> 4438
<211> 501
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-G3

<400> 4438

ctgtntacgc ctgttcggta ccgctccaaa attcccaggt ccacccacgc gtccgcnttt 60

tancacncga taggtcagcg aancgtgagc gggcgcggag aaggaaaggc caaacacttc 120

ggccgaacgg gaatgagcaa cgacgaaatg acaagatgag gtgctccggg caccccccatt 180

tanatttaga aagaagggtc gaaggttttg ggcctctagc tttccccgtc ccccctgagt 240

tgggtggtgc ttgtgtgggg ggcgtgccac cagaaatcgg gcttgaagct ctcgccttac 300

caangagccg acagctgatg gctatggctg ttggtcacga ctactaccaa aaggttccaa 360

tgaagatgaa tatttcacat ggaagagtgt gcatctgtat gttgggtgtt ctctgtcgtg 420

cgacccggcg gcttatgttc nacctgtggc ccangcctcc taattgttca aggcggcngc 480

ttnaactccg aatccattcg g 501

<210> 4439
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-G5

<400> 4439

acgcgtccgc atttttctct ctctacctaa ccaatcctaa gctcatctct ctatctccaa 60

tggagtccgc cgcactatcc cgaatcggtc tcgccggact cgccgtgatg ggccaaaacc 120

tcgccttaaa catcgccgag aaaggtttcc caatctcagt ctacaatcga accacttcca 180

aagtcgacga aaccctagat cgagccgccg tcgaaggaaa cctcccagtc tccggccaat 240

actctccccg cgatttcgtc ctctcgatcc aacggcctag atctctcatc atcctcgtca 300

aagctggagc tcccgttgac caaacaatcg acgccttctc cgaatacatg gagccaagga 360

gattgcatca tcgacggtgg aaacgaatgg tatcaagaac acagagcgac gggtntccga 420

agctgaacaa aaaagggntg 440

<210> 4440
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-G6

<400> 4440

cggtaanggt ccaaaattcc cgggtcgacc cacgcgtccg cccacgcgtc cgttgatttg 60

agtattgtag agtgaaaaca aaggcagagt ctgctgcacc tgttccacgt cctgtcccac 120

tttctaagct aactgatagc ttcttagatg gaacaagcag tgtgtatcta gaggagttac 180

aaagagcttg ggaggctgat cccaacagtg ttgatgagtc gtgggataac ttttttagga 240

attttgtggg tcaggcttct acatcgcctg gtatctcggg gcaaaccatt caagaaagca 300

tgcgtttgtt gttgctagtt agagcttacc aggttaatgg ccacatgaag gccaagcttg 360

atcctttagg tctaagagaa gagagagatt ccagaggatc tcacgccaag tctttaaggg 420

tttactgagg ctgatcttga tcgggaaatc cttccgggtg tatgaagatn tcggttttcc 480

<210> 4441
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-G7

<400> 4441

acgcgtccgt agctctctca cttcagcttt ccaattaaag ggaacaaagc tttgattttt 60

gccgcagtca gaagcattac tttgcaagaa caagtgtgta aacaaagatg aggagctccc 120

aaaacggcgg cgcaatgggt ggacgagctg ccggaaccgg cggaggagga ccgtcggctc 180

cagttgacaa agaagttgac tacgctcagt acttctgtac ttactccttc ctataccacc 240

agaaggatat gcnctccgac cgtgtccgta tggatgctta cttnaacgcc gtcttcnaga 300

acaaacanca ctttgagggc anaacngttt tagacntggg caccgggant ggaattcttg 360

caatttggnc agctcaagct ggtgcnagna aggtttatgc ccgttgaacc tactaanatg 420

gctgatcaag ccncgtgccc ttgtcaaagc ca 452

<210> 4442
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-G8

<400> 4442

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agatagagag ataagaagaa gccatgggtt cgatttcgat gcacataact ccctctactg 120

ctctccctat acgccatttc agagctagag tctcttgttg ctcttctggg catgtatcat 180

ttatcaaaga tgttgctgcc actgaacctc caatgcatct tcatcactta ctcaaagtgc 240

ttcaaacaag aggtgagaca atcatatctc ctggagctaa gcagggactg atccctcttg 300

ctattccgct ttcgaagaat tcgtcaggct ctgttactgc gcttttgaga tggcctactg 360

ctccaccaag gaatggatat gccggttgtg gaagtttgga ggagtggagt cangcttata 420

nctagaaatg tnaaatgaat acattcaccg ggattccaat ttgaagaaga tgcacaagag 480

tttgnaagaa c 491

<210> 4443
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-H1

<400> 4443

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gacttttgcg ttgaacactc tgacttacag agagtattcg aacacaggag caggggctgg 120

aactgcaaat agagtgaagt ggaggggctt taaggtaatt acggctgctg ctgaagctca 180

aaaatatacg gctggtcagt ttattggtgg tggaggctgg ttatcgtcga ccggtttccc 240

cttctcgctc ggtctttgag agattgttgt gtaatgtgtt cctacgtatt gttggctaca 300

aaaattattg attaatattg tatgaagcaa atcgtgttgt cctctttgtt ttgtttgggt 360

tgtgtacttt ctctaaaaaa aaaaaaaaag g 391

<210> 4444
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-F3

<400> 4444

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ttttgagttc ggattaaatc tcgatcgcga tttggtccaa tatctcctag catcgagaga 120

tttctattct ggctaaattt tgtgttttct caggtggata agaaattttc tctttgtcgt 180

tttcctcgat aattttcgga ttacggcgac gaatcagatt gtttttggt ttcaaatttt 240

ctgatatttc caaaaaaaca aaaaaatctg atttttgaga aaaaagcaat gcaacggatc 300

gtggacaacg ctctcgctgt aaccaaagaa tcagtaaaaa ctgttacata tgagtctttg 360

aataacattg cgaggtgcat aaatgggagt atcagctctt ctgttgaccc ttctcccaag 420

gaaggctaat attcttgaan ggcttacatg gctggggaac tcaagcctac gtttcgtggg 480

accacgttta acaacgggtg ggtnc 505

<210> 4445
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-C2

<400> 4445

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cttccgtaac gcagagctag agaaaacatt ggatcaagac ttgtctaggt tatatccaga 120

gcattggagt tactttcaag ctcctggatg tcaaggcatg ttaaggcgta ttctactctt 180

gtggtgcctt aaacatcccg agtacggtta tcgacaaggg atgcatgagc ttttggcgcc 240

actgctttat gtacttcatg ttgatgttga tcgtctctct gaagtgcgta aaagttatga 300

agatcatttc atagacagat tcgatggttt atcttttgaa gaaagagata ttacttacaa 360

ctttgaattc aaaaagtttc tgggaggatt tcacggatga tgagattggt ggtattcang 420

ggaattcaaa gaaaataaag agtctagatg agctcnattc cgaaatcaat ccaaatgtga 480

anggttaagt taatgcctaa tg 502

<210> 4446
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-C4

<400> 4446

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gaattgaggg cncttgccca aaaanctcgc tccgaaagaa ccggtgctgc tatgantatn 120

cctgtctcat ctgacagggg taggantgaa agtgttgacc caagaggtga ttatgacaac 180

tatgaccagg atagaggaag ggaaagagaa agggaagagc ctcaagagac gagggannnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnaangt tggatgccaa agatgctgcc atggggaaga agagcatatc accagagaca 360

gagaccgtga catcagtgag aaagttgctc ttggaatggc atctactgga aggaaaaggt 420

gtggtgaagt tatgtatgat naacgtccgt ttaaccaaga caaagggatt ggctccnggt 480

ttcccg 486

<210> 4447
<211> 500
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-C7

<400> 4447

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tgctatggat cgtcaagccg gagagggaga atgatgaact accatctccg gcgataattt 120

ccgaccgant tctggtaaat ggtgttgtca ccccgttaac gttgaccgcc gagggaaagc 180

tacnatcnac ggaatctgga cggcggaaat cnacnttggc aaaagaaatc ctgantttcg 240

tcgtggaagg taacaaggtt agagtaaaga ccttggttga gaaaggagga ggaatttgct 300

gtaaaggaan tgctgganat tatncaagga acgatttcgt tttcgagcct ctctctgatg 360

aatctagaaa gctttggtcc gataagttcc atcaacacct cgtctctctc ggtcgggcaa 420

agaaattgct gtgtttgtga aaccgtttgg cggggaanaa aacancgaga angatatttc 480

aagagggaag taaancccat 500

<210> 4448
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-C9

<400> 4448

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gaaacaatgg cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nngctttgga tccttcgttt cttcgtcttt cgacctctct ccaaagaagt 180

agctttcctc aagattttcg gtttggtgca gcttcgagtg cttatcagag tgaaggagca 240

gccaacgttg atggaagaga accaagcata tgggatacgt ttactaaaca atatccagaa 300

aagatttcag atggtagcaa tggcgacgtt gcagacgaat tttattaccg tttcaaggag 360

gacgtggcac atatgaaaga aatagggctg gactcattta ggttttcgat ttcttggtcc 420

anaatactac ctcgangtac ggttgctgga gga 453

<210> 4449
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-039-Q1-E1-D11

<400> 4449

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atctccgcca cgtgtttctc tctttttgtc tcctttcttc ttctccctaa tcttaatctc 120

agaaaccaac aacatcagta gtcagtaccc ccacacacac agagagaccc tttttcgatt 180

ctccactttc tcataaagga acgatttttc gagatgtggg tcagtgttga tttctctcct 240

cttggcttat gagtttcgaa ttcgaatctc aaactaaaaa gctttttgaa acaagcaaca 300

aatgttactg acacctaaga tgtttaagtt cttggcttcg acaagatgtg aagaagatcc 360

tcaaacgcaa agacagtgat gctggtgaac gaagaaaaag cattgggagg actt 414

<210> 4450
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-D3

<400> 4450

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ctttctcata acaacaaaaa aacaaaaaaa aaacctaatt agtttttttct ttctgcagag 120

attatggagg taccggtgat taatagaata agagatttcg aagttggtat aaactcgatt 180

aatgatcctt cgtttctttc tcgatctgtt gctgtttccg gaatcggaaa gctacaccaa 240

gcttatggtt tttggaaatg gggagctttg attatcgcat ttctagctta tttcaccaac 300

tttgttagta aactcaacag tctagttgtt aggttaagaa aaatagatgt ctctgtttcc 360

tctccaactc tttttgatga ttacgatagc gattccgatg tttcttgttc ctctaacgtc 420

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tgactcnatt cttaaacc 498

<210> 4451
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-D4

<400> 4451

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caccaaccat tgttacactc taagagaaga gaagagagaa ggaaaaatgg acggtgtatc 120

accaaagttt gtgttgccgg agacattcga cggcgtgagg atggagatca caggccaact 180

aggcatgatc tgggagcttg taaaagcacc agtgattgtc cctcttcttc aattagctgt 240

ttacatctgt ttgcttatgt ctgtcatgct tttatgtgag agggtttaca tgggaatcgt 300

catcgtcctc gtcaaactct tctggaaaaa accagacaaa cgttacaagt tcgagcccat 360

tcacgatgat gaagagcttg gtaagctcca atttccccgt cgtcctcgta caaatcccca 420

tgttcaacga acgagaggtt tataagctat caataagagc ggcgtgtgga cttcctggcc 480

gtccgattgt ctcgtgaatc aa 502

<210> 4452
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-D8

<400> 4452

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aaaaagagct ctgctttgag atcttagcca ttaagttctc ttgatgatgt ctggttcaag 120

attagcctct agactaataa taatcttctc aataatctcc acatctttct tcaccgttga 180

atcgattcga ctattccctg attcattcga cgatgcatct tcagatttaa tggaagctcc 240

agcatatcaa aacggtcttg attgctctgt tttagccaaa aacagactct tgttagcttg 300

tgatccatca gctgttcata tagctatgac tctagatcca gcttacttgc gtggcacggt 360

atctgcagta cattccatcc tcaaacacac ttcttgccct gaaaacatct tcttccactt 420

cattgcttcg gggtacaagt cagggttccc tcgccaagaa cctancctcn gtttttcctt 480

ccttgagttt caaagtcca 499

<210> 4453
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-039-Q1-E1-E12

<400> 4453

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ttgatagttt gcgtactagg agtctgtgaa agcttgcaca ggaagaaagc aaatcgggaa 120

agaaaggaat ctgaatcgga gaagcaatcg aggtttacga ttaccaaatt ctgatctaat 180

ctgattaatt gtggtgattt ccgatggaag aagacggtgg tggcggcggt gcgaaagttg 240

gaatgctgga gaatttcatg aagacgcatc agagttcttt gaaatcgtta ttccagagaa 300

agaaatcatc ctctggtcgt gatggagatg cttctccgtc gcctatcgct tccccgaaac 360

ctattccgca gctctctcct tctcgccaat tccgtcgtct ccccgcctgt tcaaaa 416

<210> 4454
<211> 500
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-E3

<400> 4454

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tatacaaacc tttctcaatt cttcttgaca ttagggtttc ctctttcttt gagagggcta 120

aaaccctaat atatccctct cattgactaa agagttaagc ctactctatc tactttggaa 180

gcgaaattca aagggtaagg naaaagccct tgaaagagga agaaagatac aagatcctca 240

aagaacctaa agatctaaag gntgtaagaa gaaaaacaaa tggngtcgtc atcaaactca 300

tacaactcac catgcgcggc gtgcaagttt cttcgccggg aatgcatgcc gggatgcata 360

ttcgcgccat attttccacc ggaggagcca cacaaattcg ccaaagtcca caaaatcttt 420

gggngcaagc aacgtnaacg aaagctcctc aannnagntc ctccctcanc aangttgaaa 480

gangcagttc aactccctta 500

<210> 4455
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-E7

<400> 4455

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngt attgccgtgt gatactgtag 300

attgtttcac ctttgaagca acaccttcaa gagtcaaatc cttttctttc ttattcatct 360

tcccttcttt ttcggtatat tataaacact tttgaaaatg ggatcacaac atttcctatg 420

gtgtancaat tgtgaacaaa gaatcagcta g 451

<210> 4456
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-E9

<400> 4456

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tgtatctccc aaacaagttg aggtagagta tgcagatgga accaagttca atttttcatc 120

agagtttctg agaattcata gtccagctgc tgatggaaaa gtcagatcaa tcggtggtga 180

aaaggtgata tctggaaggc ggtatgtagg aatcatgtct gcagaaccgg ttggaaacta 240

cggggtaagg tacttacaaa tactgcaagg tcattatgag ttagccatca tgaagattca 300

gatacctaag tttattgttt tgcttataac ttaatgcggt tgggggctaa atctttttg 360

aggattcaag ttagtgtttg atgacntgca tanaacaagg atatatccat g 411

<210> 4457
<211> 500
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-F2

<400> 4457

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caccaacaaa acaaaaaaaa ggttttgatc aaagagatca ctgttaaacc ctcacaaaat 120

ttcctcagga ctaataatct gcgatcgatc gtcgttatga taagtctcta aagaagattg 180

atgattctgg attacattat catgggagga gcttgttcaa ggaagagaga tcaacaagtt 240

gaggatattt taaacagagg tgtctctgga aaatatagca agagttcaag ttcgaaatgg 300

ttagctactt cgctctctag gtctggctcc gatgttaaac ggaagaatgg agaatgcccg 360

tcgcttatgg gagctctgtg tccgcaagat acaggaggac attgataaga tataccaagt 420

tctctgacct anctagagat atcagtcagc agatttttga tgaatggnta atcccaagag 480

gttaccttta aagtcccctg 500

<210> 4458
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-C12

<400> 4458

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gtttcaaatg aagttccaaa gcaacccctg gttgatgacg atgagaatga tgaaaaaaat 120

tctgaaaaat atggtctcgc ttctggcttc tccatcaata agaaacggaa aaatgtagtg 180

ggtactacta agaagagtaa gaagaaaaaa ggtaacaata atgctggcga ttcatctgac 240

cctgactctg gtactctagc aaaagttggg tggttcagag ttgtactaga tgaagctcaa 300

acaattaaga atcatagaac ccaggtggca agagcatgtt gcggtcttcg aagccaaaag 360

gangtggtgt ttgtctggaa caccaataca aaatacaata gaatgattta tacaag 416

<210> 4459
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-B4

<400> 4459

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caagganaga gttaacccan anaacagagc aatcctctaa aaaatctcaa gaancctcac 120

taaaatgggg ttcaacggca gagacacaat taactccggt gcaagtcacc gacgacgaan 180

ctgccctctt cgccatgcaa ctagccagtg cttccgttct tccgatggct ttaaaatccg 240

ccttagagct tgaccttctt gagattatgg ccaagaatgg ttctcccatg tctcctaccg 300

agatcgcttc taaacttccg accaaaaatc ctgaagctcc ggtcatgctc gaccgtatcc 360

tccgtcttct tacgtcntan tccgtcttaa cctgctccan ccgtaaactt tccggtgatg 420

gcgttgaacn gatttacggg cttggtccgg tttgcaaagt atttgaccnn naaccgaaga 480

tgggtgttcc antgg 495

<210> 4460
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-B6

<400> 4460

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aatggctcca agcttatttc cttgtgcttg atgatattat ggataactct gtcactcgcc 180

gtggtcaacc ttgctggttc agagttcctc aggttggtat ggttgccatc aatgatggga 240

ttctacttcg caatcacatc cacaggattc tcaaaaagca tttccgtgat aagccttact 300

atgttgacct tgttgatttg tttaatgagg ttgagttgca aacagcttgt ggccagatga 360

tagatttgat caccaccttt gaaggagana aggatttggn cangtactca ttgtcaatnn 420

acngtcntat tgtccagtac aaaaa 445

<210> 4461
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-C3

<400> 4461

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gggtcnggtt tatgtcggaa ccggttgtcn cttccgaaga atcncgcttt anggattcaa 120

tccgcctcga agcaaggact tttccccaag ttgctggagt tgttgtttcc ctcgtagcaa 180

gaagaagaat attcctgaag aaaaccgagc tctgcgtatg agtgattatg atgacgaaga 240

gatgaatctc tctctagtcc cgaagaagtt cggtaactca acattcctca ttgattcaat 300

tcccgttgct gagttccaag gccggcctct cgcggaccac cctgcggtta aaaacggggc 360

gtccaccggg tgcactcacc attcctcgag aacttcttga tgcatcgact gtagcagaag 420

ccatttgctg ttatctcttg ctggtacgan gataaaactg angtggggat nacgtnatcg 480

gatggattta acnggtta 498

<210> 4462
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-C4

<400> 4462

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ctagctttga ttcaaccatg gctaatgcag catcaggaat gggcaagtcc atgatgactg 120

caagctgaaa tttatggaat tgaagacgaa aaggacacac cgtttcatca tttacaagat 180

tgaggagctg canaaacaag tgattgttga gaaaatcggt gaaccgggtc aaacccatga 240

ggaccttgct gcaagtcttc cagctgatga atgccgctat gccattttcg attttgattt 300

tgtcaattct ganggtgtcc caaggagcan gatttttttc gtggcatggt ctccggacac 360

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ct 422

<210> 4463
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-C8

<400> 4463

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tggctcagaa caaagaagat aaaaaaaaaa gtgtgatata ttgtgagaag attgcagaag 120

cgtgtccaac ttggttccct ctctctctga aattactcaa tcatggggat ttgcttgagt 180

gctcaggtca aagctgagag ctcaggagcg agtacgaagt atgacgccaa agatatagga 240

agtcttggga gcaaggcttc gtctgtgtct gtaagaccaa gccctcgaac tgagggtgag 300

atcttacagt ctccaaatct caagagtttt agctttgctg agcttaaatc agcaaccaag 360

gaattttaga ccagacagtg tgcttggtga aggtggattc cgttgtgttt tcaaanggat 420

ggattga 427

<210> 4464
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-D12

<400> 4464

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aaagccatct tattggcttt agcatcttca tttgtatctt gttacgaccc aagtcctctt 120

caggactttt gtgttgccgt cgatgacgct agtggtgttt tcgtgaatgg aaaattctgc 180

aaagacccaa aatacgtnaa agctgaagac ttttttactt ccggactaaa catcgccgga 240

aacacaataa accgcgttgg ctccaacgtt acaaacgtta acgttgacaa aatccctgga 300

ctcaacaccc tcggagtgtc tcttgtccga attgactttg ccccgggagg tcaaaacccg 360

ccacacacgc acccacgagc cactgagatc ctcgtgggtt gtcgaaggaa caactcctta 420

g 421

<210> 4465
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-D2

<400> 4465

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cggccacgcg tcccgaaaat gtttaactat gtgattattc ttcctttagc tctcttcctc 120

ttggcttaca aattcttctt tacatctaaa aagcagcgtt actatctccc tccctctcca 180

tcttactctc tcccaatcct cggccaccac ctcctcatca aaccgccggt tcaacgtctc 240

ttccaccgcc tttccaatat ccatggccca atcttctacc tccgacttgg ttccccgccg 300

tgccgtcgtc atatcttcnt cctcgctggg caagagaatg cttcacaggt caaaacgatg 360

tcattgtatc aaaccgccct cgttttctaa cctccaaata cattgcttac aactacacan 420

ccatcggaac aacatcttac ggtgaccact ggcgtaacct ccgccgcatt tgctcnctcg 480

aaatcgtctc ctcaaaaacg tc 502

<210> 4466
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-037-Q1-E1-D4

<400> 4466

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gcgatttatc ctaatctttt ttctatcttc tgctacaaat ttggttcttt tttggttgaa 120

tttggataaa atcataatct cctcttcaat tttcttgtga aatggaagtt tcagtgattg 180

gaaatcctca agcgaggatc tgcagagcag aattagctta cagagagctt ggatttagat 240

ttggctctga tgtaatctcc ggtgaatcga gaaatagggt tagtttctgc aaccaaagct 300

ctaaatggaa agagatcgcg atacgttgct cttcgagatc tgtcaaatgt gaagccatcc 360

gtctccgatg acgcttctcc gtttctcaaa tccaactcca aaatctaaat cgctcgagaa 420

gtgtaaaaat aattgttggg cctcccgtt 449

<210> 4467
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-D7

<400> 4467

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atcagtccaa gacagcgatc gagcttacgt gacgtttctt gctggaaacg gtgattacgt 180

gaaaggagtc gttggtttag ccaaagggtt aaggaaagtc aaatcggctt atccactcgt 240

agtancgatg ttacccgacg tcncggagga acaccgtcgt atacttgtgg atcaaggatg 300

catcgtccgt gaaatcgaan ccccgtttac ccaccccgag aaccaaactc agttcgccat 360

gggcttanna cgtnatcnac nnacgncgaa cnccgtatct ggaagttttg tggaagtan 419

<210> 4468
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-E10

<400> 4468

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agccatggtt ggaatgcttg ctgatccgaa agaggcccga gctggaatca cgagaggttc 120

acttccttcc attcaaccct gtggataaga gaactgcttt gacttacatc gactctgatg 180

gtaactggca cagagtcagc aaaggtgctc ccgagcagat ccttgacctt gccaatgcca 240

ggcctgacct taggaagaag gtactctctt gtattgacaa gtacgctgag cgcggtctta 300

ggtcgttggc agtagctcgt caggtggtac ccgangaaaa caaaagaaag cccaggtgga 360

ccatgggaat ttgttggctt gtttgcctct ttttgaccct ccaagacacg acagtgccnn 420

agncattcnt tagggcgttt gaancctaag gtgtttaatg ntgaaagat 469

<210> 4469
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-E11

<400> 4469

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acatacggcc gttcaattcc accgtccgac gagacttgtt accctctctc ctctctctcc 180

ggcgacgcct ttgagtatca gcgacctaat ttctcttcta accacgattc ttctgcttat 240

gacgaccaag ctcttaaaac cgagtacagt agctatgcac gacccggacc cgttggatct 300

ggatctgatt ttggccggga aacctaattc tggatatgga gggagaacgg aggttgagta 360

tggccggaaa actgaatcgg ngcatggatt tgggctaatg ggtgggaang aatt 414

<210> 4470
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-F3

<400> 4470

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ggtatgggga aaactgtaga tttcttcatc cacaacaagc taagccaaat aatccctttg 120

gctttggtac nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnt agttcgaacc 180

cttttggatt tggtgtacaa agtggtggtt ccagcagacc gaatcagttc cagaatactt 240

ggtcacgaac ggcttctaca cctactggtg gtggtgctgc tgcttctaca cagcagactg 300

gtaaacagac gcagccggca gatcataaat gcacagatcc tgctgcgtgt aancggggta 360

atgcaagacg attttaagaa tgaagagacc catgtggaag ctcacatgct acggccactg 420

gaaataattt ccatgtgatg tttaccgggt gatatcancc 460

<210> 4471
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-F9

<400> 4471

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nnnnnnnnnn aagtggctcg tttggtacaa gcattcatag ttcnagccgc aattcttgtt 180

ctggcagcac tggcttgtgt gtttggaaga ctatgcaacc gcggtggaaa gcaacacaaa 240

gacaaaaaca acaacaaagc ttcgaagcat nanaaaccat cgtcaaagaa gagccgtgag 300

attagacctg tggagcgtna accaanagaa agaggtgatg tggagtttgg tttcnatatg 360

aagcggcctg gtcctatgag caaacccact ggtcgaaacg gaggggacat agaatttggg 420

tttganaaca ngngaggang aagtggtggt ggaggangg 459

<210> 4472
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-B2

<400> 4472

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cttggttaan nagtggaaac naatcccccc aaantggccg tngatntcca aagttttgcn 120

aaatcccccg gggaacttta ctgaaatttt ggagctantc atgtcntcgg atcctgacaa 180

aatgatgtcc aaagccgaca aaatgacaaa gctcacgctt actagatgga gtgctgattg 240

ggagaggtgc tactgagttg tatgagcaag cagcaaatgg gtttagagca tcaaacaaat 300

atgagaaagc taaagtggct ctcgagaaag cttcaaaagg acaagagatg caagcttctc 360

cttgggatgc tgcaaagcat atggagtctg ctgctgcctt agcacagaag ctaagtattt 420

ggnatgaagt tgctgatttt tataagaaag gcgtcnggag ctgtatgttg aantgtggna 480

agggcacaaa cccgcatcag atg 503

<210> 4473
<211> 361
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-036-Q1-E1-E7

<400> 4473

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ctctcggact acgtacatgc ctacaatgcc tgcactcacc agatgtacaa cgggatcaaa 120

attccaatgg aagaagaaag aaaagacacc taccactcag aagagagaat ctcaggtttc 180

ggttatgaac ggtgagaatt cttttggggt cacgcaaata tgtgtcagaa taaacagctt 240

gcanaaaatc cgcagtgagc ttgatgttgt ggaaaaaaga gtgatcacac atttgaggaa 300

ctgttgagtc agctcacacc cgaatgactt ttccaacggc ttagaaaaan aagttttgag 360

c 361

<210> 4474
<211> 324
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-036-Q1-E1-F12

<400> 4474

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attcgttctt cttccccgga gacgacaagc atcgaagaat ctgtttagag acagctatgc 180

ttgtctctgt ttctgcgttt tctctttccg atcttgtctc tcgngatccg gtgaagaagc 240

tgccgccgat cacatcttcc agtttccaag agattctaaa nctttttgtct tttgatcctt 300

catcgaattc attgaggaga ttat 324

<210> 4475
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-036-Q1-E1-F5

<400> 4475

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tcccgcagtt tattttagaa tccgagattg aagcaaaccg tggagctttt tccagtatca 120

tatgtactca accaaggaga atatctgcta tgtctgtttc ggagagggtt gcttacgaga 180

gaggagagca gttgggtgaa tctgttggat ataaagttcg attggaaggt gttaaaggaa 240

gagatacccg cttactcttc tgcaccacag gcattttgtt gagacgcttg ttggtagata 300

gaaatttaag aggagttact catgttatcg nggatgaaat tcangagcgt gggatgaatg 360

agagatttcc gtcttatcag tcgtaaagga tctgcnatct cg 402

<210> 4476
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-036-Q1-E1-F7

<400> 4476

atattgttag cattaaatta ggagacatta tcccagctga tgcccgtcta cttgaaggtg 60

atcctttaaa ggttgaccaa tctgctctaa ctggagagtc ccttcctgta accaagcacc 120

cgggtcaaga agttttctct ggttcaacct gcaaacaagg agaaatcgag gcggttgtta 180

ttgccactgg ggttcatacc ttcttcggta aagctgctca ccttgtggac agcactaanc 240

aagttggaca tttccagaag gttcttacag ccattgggaa cttctgtatc tgttccattg 300

ctatcggtat ggtgattgaa gatcatccgt catgtatccg atccaacgcc ganagtacag 360

agatggaatt gacaaacctt ttggtcctcn tgatcggtgg t 401

<210> 4477
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-036-Q1-E1-F9

<400> 4477

aactgttccg cctgccggta caaagtccaa aattcccggg tcgacccacg cntccgcaat 60

ctggtgccac tgttggtgaa ctttattaca ggattgcgga gaagagcaaa gtccatgggt 120

tcccggcggg tttgtgctcg agcttaggca taggaggaca cataacaggc ggtgcgtacg 180

gttccatgat gcggaaatat ggtctaggtg cagacaatgt tctagacgca aagattgttg 240

atgccaacgg taaattactc gatagagccg cgatgggtga ggatacattt tgggctatta 300

gaggaggcgc tggangggag ttttgggata attctaacat ggaagatcaa gcttgttcct 360

gttcctaaga ccgtgaccgt ctttaccgtc accaaanacg ttacaacaag acntgggtaa 420

caagattatc tcaaagtggc aaagaattgc gggacaaact tgttgaanga gctatt 476

<210> 4478
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-036-Q1-E1-G2

<400> 4478

ctgtttacgc ctgccggtac cngtccaaaa ttcccgggtc gacccacgcg tccgcttaac 60

tctaacggga gttaactaac gtcgacatta tgctagaggg agatgagaaa cagagccgag 120

ctctggattt caatcgactc gaggttttgt cattactagg tcgtggagct aaaggagttg 180

tgtttcttgt ccgcgacgac gacgctaaat tgcttgcttt aaaagttata cttaaggaag 240

ccatcgagga agaaaaagaa gggtagagaa agtgaagatg atgagtataa acgcgtgagt 300

ttcgaagcaa ggagtattaa gcagattcga ccatcctctc tttccgtctc ttcacggtgt 360

tttagctacc gataaagtca tcggttatgc gatcgattat tgtccgggac agaatctcaa 420

ttctttgagg aaaatgcaat cggaaagtat gttttccgac gagattatca ggtaaatttg 480

tt 482

<210> 4479
<211> 396
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-036-Q1-E1-G5

<400> 4479

aactcaaagc cctcgcttta ccgaagaaat aaaagaaata agtgttgatc atggttcatc 60

taacaacaat ggtacttctt accaaactct tgatgagaaa ttcgttgagg acatcgagaa 120

tggcgataag ttctctggtt ctttggagaa aaaacccctg gttgggtcac atttgcctcc 180

tagtactcct tcaacaacag ctccttcacc tctcttgggt cttcctgagg tttctcacat 240

tggntggggt cattggttca ctctccgtga ccttcaactc gcgactaatc atttctccaa 300

ggagaagtat catcggagat ggtgggttat ggagttgttt accatggaan tttgactaac 360

aanngcccct ggtggctgtc aaaaagttgc tcaaan 396

<210> 4480
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-036-Q1-E1-G8

<400> 4480

aaaaactcaa aactcaaaac catctttgtg aaaaaaaaat ggaaggaaga caatattacc 60

ctccgagaga aaacgttgaa ggaaacagaa ccaccatggg aggaggacct cactcaccgt 120

ggcattcacc ggttccttat ctctttggtg gtttagcagc gatgcttggt ctcatagctt 180

ttgctcttct aatcctcgct tgctcttact ggcgtctctc cggttatcta gacggcgagg 240

aaaaccagag cagagagaga gatcttgaag tcggagatgt gaaacctgac aaaacggcgg 300

tgaagcctgt agctttgccg gagaagttct tggtgattat ggccggaaat gtcaaaccta 360

cttacttagc aacgccgtcg gtaaaaacgt gtacttgtga cgatgatgac gatgaaga 418

<210> 4481
<211> 421

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-036-Q1-E1-G9

<400> 4481

acgcgtgggc ggagtccccg agagattgat caccatcact tttgtacctt ccttgtacta 60

cctatggcgt ctgctagctt cgttaagcct aacacnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnngagtctc cttcgcgatc 180

cgcgccggtg cttactccga cgagcttgtt aaaaccgcca aaagcattgc atcccctggg 240

agaggtatct tggcgatcga tgagtccaat gcaacctgtg ggaagaggct tgcttctatc 300

ggcttggata acaccgagga caaccgtcan gcctacaggc aacttctgcn taacaactcc 360

ctgggnctcg ggngattaca tctcgnggtt ccaattctct tcgaaggaga ctctttaaca 420

a 421

<210> 4482
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-036-Q1-E1-H12

<400> 4482

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actacaagcg gtggaggaat gagaaccacn ttttccccna cgccatcggn caccacatcc 120

aaggtgtcac cgtccacgac ggcgaatggg actcccatgg agccctcaag atttggaact 180

acacattaga tgggaaaccg gagatgttca gggagaggag ananatagac gatgatnaac 240

atggcggtaa cgttcgttgg actanaaggt cacgtgatgg atcagcttaa antgtatgat 300

accattttac agttcattca aaagtcnccg gatnatatcg tttgcaagat cactatnacc 360

tgnggataag cgagccggat gactcncctg aaaccaacaa ctacantaaa ggttggncca 420

gagtcccccc 430

<210> 4483
<211> 415

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-036-Q1-E1-H2

<400> 4483

acgcgtccgg ttataaggaa gatattcaac taatgaagaa tctaaacaca gacgcattca 60

gactctcaat cgcatggtca agaatatttc ctcatgggag aaaggagaag ggagtgagtc 120

aagctggtgt gaaattctac cacgacctga tcgatgagct ccttaaaaat ggtataattc 180

cgtttgtgac tgttttccat tgggacactc cacaagattt agaagacgaa tatggcggtt 240

tcttaagcga gaacattgtg aaagatttcc gagaatatgc agattatgtt ttcactgaat 300

acggtggaaa agtgaaaaac tggatcactt tcaacgagcc atgggtcttc gctcatgcag 360

gttacgacgt anngcaanaa ggcgccagga cgtttgttct cgctaacctt aanag 415

<210> 4484
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-036-Q1-E1-H6

<400> 4484

acgcgtccgg ttttttttat aattataatt tatttgctct cggcaggatc tatataatac 60

acagaccagt ctttgcgtgt gcttgtgtgc attcattgat cgggtttana tcttttcatc 120

ggattttctt tgtcnagcaa gagccatgtc actganaccc aacgctaaga cggaggttcg 180

ccggaacnga tacaangttg cagtggatgc ggaggaagga cgacggagga gagaagacaa 240

catggntgag atccgtaaaa ncaagcgtga gganagtttg atgaanaaga gacgtgaagg 300

tatgcaagct cttcagggtt tcccttcagc ttccgccgcc tccgtcgata anaagttgga 360

tagtcngaag gatatgggtc nctgggggtt tnggtccgaa tgaccctgcc tttgcaagcn 420

tg 422

<210> 4485
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-A4

<400> 4485

gttacgcctg ccgtttcggg tccgaaaatt cccgggtcaa acccacgcgt ccgaatggca 60

gaggcttcaa agtactttga gactactcca gaaacattca cctaaattct ttgggagact 120

catttacttt cctttgaggt caatatgaga aaacanaagt ttctgcttgc attccaggct 180

gtcaagcaat tgcttaaatt gggtgcagag aaccctgatt cacatcgttc cttggttaaa 240

ttctttctca tgacagaatc gataagtgct ccaacgactg aangctgaga aacttcgttg 300

gagggtccta gaggctgagc gcccatcaat cagtcaattg cagaataaat cactaatgga 360

aagcaaacaa agagttcttg ggaagacacg aagattcntt ggtgcacaga gctgcatatg 420

caaaaaatgc ctgtaaaatt tagattccaa ncaaagaaaa cccgagggca nca 473

<210> 4486
<211> 494
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-A5

<400> 4486

gccggtttcg gtcgcnagtn ccggnntaaa aattcccggg tcgacccacg cgtccgtgan 60

tgtatttcgc taccagatga agttgtagaa acacaacacg tcaatacctc tgttgaatca 120

gacacatctg cttatggaac agcatttgat gcatttggag ggggtgaaag tggaaaggaa 180

gcttgccatg ctattgctgc attatgtgaa gtttgctcca ttgattcctt aatatcaaat 240

tttatccttc ctttacaggg aagtaacgtg tcaggaaaag atggtcgtgt ccactgctcc 300

ctgaatatca acactgaaac tggacgctta tcggctagaa ggccaaattt gcagaaccaa 360

cctgcattgg agaaagatcg gtacaaantc cgtcaggcct tcatancatc acctggaaat 420

tcacttantg ttgcctgatt atggacaact ggaacttagg gattctggca catcttgcta 480

gttngcgaaa gcat 494

<210> 4487
<211> 421

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-A7

<400> 4487

acgcgtccgg ttgccgttag ccaggtgaga atccttaagc gcggcgaaga aatccccaag 60

gagacttcag atctggttgt ggaaatgtca gatctgggat ctactcgtcg gattggacca 120

gatccgggtt tgattccggg tcagatccgt ttatctggcc gcaaatcgaa atcagcaccg 180

ttttacgccg gtcctgtgac catgacctcg ccgcctccta gcgatgtccc gcttccagct 240

ttcttcacga agaaggcaac aaatgatctc atcaggatcc ttcgccnaga catcgcctga 300

cggtgtctgt caccgatcat ttttgatttt ttaaaaatct cccgatgatc caaatggtta 360

ccaanagtgt tacatttccg tattaccgat cgtccgattc cgccctgaaa aacgggacat 420

n 421

<210> 4488
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-036-Q1-E1-E10

<400> 4488

acgcgtgggc ggacgcgtgg gcggacgcgt gggcggacgc gtggggaaag ctgccttctt 60

tatgtcgatc agctgaagca gaggtgtgtt gaaggtttca aagaaggtgt tttgagcatc 120

gagcagttag cttctgttga tggtttatgc gagtgggtgt tgaaggctat aggcgcatcg 180

gatccggttc atacttacaa tatcaatcta tcagttttca cttcgattcc tgatctctgg 240

gggattgatc agctgttccc tatagttcct atccataagc tcgatcaaag gcccggggct 300

cgcggaatcc tttcagattt aacgtgtgat agtgacggga agatcaacaa gttcataggc 360

ggtgaatcca gcttgccgtt gcacgagctg gacaaagaat ggcaatggan ggaaggtac 419

<210> 4489
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-G6

<400> 4489

gaactgttaa cctgncagcc gccggtaacg gtccagaatt cccgggtcga cccacgcgtc 60

cggatgaagg aagacancct ctctcaagaa agctacctat tcgttcaagc agaataaatc 120

cttacaggat gttaattctg tgtcgcctcg cgattcttgg tcttttcttt cattatagaa 180

ttctccatcc agtcaatgat gcatatggat tatggttaac gtcagttata tgcgagatat 240

ggtttgcagt gtcttggatt cttgatcaat tccccaaatg gtatcctaan agaacgtgaa 300

acatacctcg atanactctc tctcaggtac gagaaggaaa ggaaaaccgt caggattagc 360

acctgttgat gtttttgtta agtacagtgg atccgttgaa agagccaccc ttgattacag 420

caaacacagt tctttccatt cctaacagtt tgattatcct gtggataagg ntgcgtgtta 480

tgtatcagac gatggtgcag ctatg 505

<210> 4490
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-H11

<400> 4490

tctacagtct ccattcttgg atgggtttgc tctctgtttc tctcttcgct gcccagtggg 60

tgactgggtt catgagcttc tggcatagan gagaagtacg gactacaaga accacgtttc 120

ttccctggca tgtattcctc ggactctata cctatggttt aaccantgcc acagctgaga 180

ccggactgcn tgagaaactg angttccttc agaccaagag gaatgtcccc agacgcggtt 240

ctgaatcaat gactgtcaat ggtttagggc ttggcttggc tctacncggg ttgcattgtt 300

ataactgctg ctattttgcc aaagtatcan gngccattct cntgatnaga aactcgttta 360

attcaatcgc aangatngtc cnaaaatgtt ggtccgccct ggaggtttta gnttt 415

<210> 4491
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-H12

<400> 4491

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agaatcaccg aaaaatatca aggcaaagag tttcaaattt cgtgaattag caaccgctac 120

aaatagtttc aggcaagagt tcttgatcgg agaaggaggg tttgggaggg tttacaaagg 180

aaagatggag aagacaggac aggtaaaaat aaagtggtag ctgtgaagca acttgaccgt 240

aatggattac aagggaatag agagtttctg gtagagatct tcaggttaag tcttcttcat 300

catcccaacc ttgccaatct cattggatat tgccttgatg gagaccagag acttcttgtt 360

cacgagttca tgcctcttgg ttcccttgaa gatnatcccc ctaaatgttg tantaggaca 420

acaaccattg gattgggact ccccgattaa aggattgcct taagaac 467

<210> 4492
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-H3

<400> 4492

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ttttgcgtac agttttcgaa ttggtctcct tcgtangggc aagctatggt tcaagagaac 120

tatgaatgaa actgtggtgt aagagaatat naatggttgt tanctgctan aatgtttttt 180

ggaccaagtg agtttgatgc tgatgaaatg ggttatgcaa tgagtagact tgagatagaa 240

tccnatctat gtgatactgg aaaagacgtt tgtggagttg gtantactan tggtantcac 300

angatcaagt gaacatttgg ctgatctaga ccattganat cagccacgtt actaaattga 360

aatcctagtc ctcatcaacg gtaaaaccct naaagtcccc tggggaagga gccngnccca 420

anccatagcn gacaagtccc cngactgata cag 453

<210> 4493
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-H5

<400> 4493

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gacctggcat tttgaaacca tgagcaaaga cggatcgtcg atctgctctt ctgagccctt 120

gtgcagtttc ccgtctcacg cagaanactg tccgttttca tataagccta ntggtaacca 180

agaaggacca agtctatgtg attgtaatcg aaaatgagaa natgactgtg caagagtttc 240

ccgangaatt ctaccgtgtc ggacctgtta cgcatagcag gacccagggg agctcgagat 300

ggtcaatgta cagcatcccg ggcaaaggaa gacctaaggc caangactta accnagacac 360

ctgtaagntg atctgaaatg caagctnaaa gatggggaga tgtggtggag cctgatccaa 420

tccntg 426

<210> 4494
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-H8

<400> 4494

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cctggccaca ntatatgcat tgntcggatg tccactctct tatgtacnat ggtacaggcc 120

actctaccga gccatgagga ctgacagtgc tttgaanttt ggttggtttt tcttcaccta 180

cttgattcac attggcttcg gcatcgttgc tgccatcncc cctccaatct ttttccatgg 240

aaaatcatta angtaagtct tccaataata gcccnacgtt tctacttgcg tttgagtgta 300

ctcttacttc anatgtagtt ggttaagtct ggtgagggct tcaattgggn aagttcctaa 360

aattggtctg anacggttna ttaanaattc antttgttac aaaattaatg acgattaagg 420

acctacaagt tggaagtgag aatcct 446

<210> 4495
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-036-Q1-E1-A7

<400> 4495

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cgaattcgtc ggagctccag ccccaacccg gtatcaaaag gagcagttgt caccggagca 120

agagctttca gttattgtct ctgctttgca acacgtgatc tcaggggaaa acgaaacggc 180

gccgtgtcag ggtttttcca gtgacagcac agtgataagc gcgggaatgc ctcggttgga 240

ttcagacact tgtcaagtct gtangatcga aggatgtctc ggctgtaact acttttcgc 300

gccaaatcag agaattgaaa agaatcatca acantgaang aagagattac tagtaagtag 360

taacagaaga nagagangag ctctcccgtg ggcnaagaaa ngcnggaggt ggcngggaaa 420

atcaggaaga ggaaanaaac aa 442

<210> 4496
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-036-Q1-E1-B3

<400> 4496

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tcttttgtta caattctgtt aacaaacttt gacgtcacca tttgaattct tatccaattc 120

ccatttccna acagaatttt tcctcttttt ctcnttctct ttttcattcc ttagagattc 180

ntgattctcc cacttccttc tttagtcgtt acagtcnttg ctctgttttc aaaaaaanaa 240

agttggttcc tttctcaact ttttttcccgg gaaaagtgaa tgagagctaa aannggttta 300

tcatgtttga gattcccggg gtaatacaaa ttcctctcaa nnaaaaaggt tccantttta 360

aancctcttt cgaaantctg gtannttttat ggagtaagnt taggggtt 408

<210> 4497
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-036-Q1-E1-B6

<400> 4497

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tatcagatct cgccgatctg ttgtagcagc tactgtattt tgggcttctc atttgatatt 180

ggggaaacga ggagtagagg acgatggaaa atctgatctc tctggttaac aagatacaga 240

gagcttgcac ggctttagga gaccatggag actccagcgc tttacctact ctttgggatt 300

ccttgcctgc gatcgccgtc gttggtggtc agagctcang gaagtcttca gtcctggaga 360

gcatcgtggg aaaggacttt ttaccccgtg gatctggcaa ttggttantc ga 412

<210> 4498
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-036-Q1-E1-B9

<400> 4498

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnacatttg gnttccccgg ccggaattcg 60

agaaccagga tctactaatt acctgagaga aaaaagatct gctctgtttg tctgaaacag 120

acagaagtca acaaatcttt catttgtttt ttagcaaatc aaagaaatgg ccggagggtt 180

cgtcagtcaa acgccgggtg ttcggaacta caattacaaa ctgacaccga aagtgtttgt 240

gacatgtttc atcggtgctt ttggtggtct catcttcgga tacgatctcg ggatctcagg 300

aggggtaacc tcaatgggag ccattcttgg gaaagagttc ttcccttacg tctacaagaa 360

gatgaagagc gcacatgaga acgnagtact gtcgatttga tagtcagctt ctcactc 417

<210> 4499
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-036-Q1-E1-C6

<400> 4499

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tcttcctccg tcgccggcga aaccatgtct cagtctattc aattctccac tccttcacac 120

actcctcacc ttctccatct ccctcactca caattcaacc gtcctctctc ctctatctcc 180

ttccgtcgct tccctctaac aaccatcaaa tacacttcca tcagagcctc ctcgtcatca 240

tctccttcac cggatctcga ttcatcgtcc tcatcancat cctcgcaagt acttctctca 300

nctaacggta ctggtgctgt gaagtctgat gagagatccg ttgtcgctac gngcggttan 360

gacngatacg tctgggattg aggttgatac tgtgncggaa gctgaagctt aaggaagaa 419

<210> 4500
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-036-Q1-E1-C8

<400> 4500

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ggcaacgtaa ttttggcgaa aatcctctct ctgttacgaa tagattgttt ttgattacta 120

aagctggatt cgtctctggt gctgtagatt ttcgaagatc cggtcagagt cgttcgtgaa 180

aagctccttg tttaagtgtt acgggctaca tcggacgctg actggctttt catggaattt 240

gagtgccaag agagacttga agctgcgaac gatcaaagaa gtgagtctgg tcttttgaat 300

accgatttga gaataggtaa tgatgggtct gttgagattc caaaatgtga agttgtgttg 360

tcagaaaaag aagggaactt tagtgcccag tggcntcgaa acagttacnc ccctg 415

<210> 4501
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-036-Q1-E1-D12

<400> 4501

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tctcagcttg ttgaatttgc gaagtatggg agacgctaga gacaacgaag cctacgagga 120

ggagctcttg gactatgaag aagaagacga gaaggtccca gattctggaa acaaagttaa 180

cggcgaagct gtgaaaaaag ggtacgtggg aatacacagt tctggattca gagacttcct 240

tttgaaaccg gagcttctca gagctattgt tgactcagga tttgaacatc catctgaagt 300

gcaacacgaa tgtatccctc aagctatctt gggtatggat gttatctgcc aagcaaagtc 360

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cn 422

<210> 4502
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-036-Q1-E1-D7

<400> 4502

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tcttctcttt ttagtttttt ttttcctttg tgtcgatttt ttttagccgg cggcggctcc 180

tccttctttg tggcttaatc aaagagtttt aagtcgacgg cgaagcggag atagttctct 240

cagatggagg ttcgttggta gatctacaat ggggaactat gactctcgac gacggcanca 300

gatctgggtg gatttcttcg tcagtctctt cgcggaggta cctctcctcc gatgaacctc 360

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g 421

<210> 4503
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-G3

<400> 4503

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ggagcttgct tacctggaac tggtgctaaa attgtagctt tggttggagg tccatgtaca 180

gagggccctg gaacgattat ctcaaaggat ttgtcagatc ctgtgcgctc ccacaaagat 240

ctagataaag atgctgctcc ttattataaa aaagctgtaa agttttatng atagtattgc 300

aaagcagctt gtcgctcagg gtcatgtgtt agacctttc gcttctgcac ttgatcangt 360

cggggttgct gaaatgaaaa gtaancgttg aaagtacccg gtggtccccg tgatccgtcc 420

gaaantttgg gcaatccgta attaaagat 449

<210> 4504
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-E9

<400> 4504

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ccgtcatcnt gattcacgtc caaccacaaa acgccgatca tacccgcaaa atcctcttcg 180

aggaaaccgg ttcaccgcta attcctttgg aggaatttan agaggttaat ttgtctaaac 240

agtatggact tgcttacgat cctgaggttc ttgatgttct tgatactcnc nctatggcna 300

aaaaggtgaa ggttgtagca aangtgtatt ggggagattc aatggagaaa ctttgtgatg 360

ctgtcnaaaa tctaaaacnc gattccattg ttcntggnac tctaaggtnt ggggttcctc 420

aaaaggatct tgcggggtta ctgtgncaat c 451

<210> 4505
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 4505

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tgagggaata tttgcagatc gatctatcgt cgatttagat ctggcgttcc tanggttcat 180

cgacgctgga gattcatggt ctctggtgat tgcattttcg aatttttgct gaaattgggg 240

aaaattttag gtgctgtgta tatggatana ngtgggganga gatctggtga atctccaggg 300

gtattgatta acaanagaag ttcntctggt tgcttaattg tgaagaagaa cnatggtgtt 360

ggtacgactt gttcgtttca gaaaatcgnc cgaattggga gtccaataag aagtcaagat 420

nattacaatn acccgaatcc aacgataaaa t 451

<210> 4506
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-F2

<400> 4506

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ccagattttc cggcaagaga acacgtcttt tgagctaggc tatccagaca tatttgtgaa 120

agtatttgga aaagataatt tgttcttgaa ggaagtgttc atccacaagt acctccaaaa 180

aatcactatg caaattcttg gctccgaggg tttgaagcaa acaatgttag gaaacatgga 240

caaagcaacc cgcgaccata ttaggtccat tgctagccag gggagcttca atgttcgtaa 300

agaagttgaa aacttggtag taacgtacat gacaccaaag ctgataagtt ancctaaanc 360

aagagacgca atcaaagcct ataagataat cccaacgccn tcaatcctga atgggttaag 420

tccctcctaa gactcnccac ttg 443

<210> 4507
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-F3

<400> 4507

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caagtgtagc ttgcctatca ccaacggtcc aggattcgcc agaatcaact gtttatcatc 180

agaanacaca gagtcaggta aatcttcttc aacnaattca ctttgagtgc ttagattatn 240

atccttaaag aattcagtat gtgtgtanac atgtatgtac ctgaatgtct cttttctgga 300

gagacttgta taagtcttcn aatgcgtgaa taacacttgt atcnatgtcc gtncagtgaa 360

aaataanggt gtncgttaaa agnaagcgaa cccactcta 399

<210> 4508
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 4508

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ttggattttg ataagtttag tgaaaatggg ggagcttttg tgttcttcac tgtggaaccc 120

gtcacgattc attgttgctt ctctcaaaag gtattttctg ggtttagctt cttanaggtt 180

cttcgttctt aaaggtctgt tttttttag gttgtgatac tttgaatgta aaaaanggaa 240

gatttttagt ttcgatatgt atatctctcg gatgggtttg agtcggagtt tcccgccgct 300

ttttgggggga tttcgggaaa ttctanggtt aagggttgga taatgtcttc ctctagcagt 360

ctctgcnact tttaaaatcc cctcaacctt ccttgaaaat taaaaaaggt tttttaantg 420

gttggttcct ccctgggaat ccaaaattct g 451

<210> 4509
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-F9

<400> 4509

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gctttaacaa aaanaaaatg gnaagcgcga atccagaaan cgcnaaaccc acgcctgcaa 120

cggtggacat ggctaatcca naggagctta agaaagtttt cgaccagttt gactccaacg 180

gcgacggcaa gatctcagtc ctcgaactcn gcggtgtgtt taaggctatg gngacttcnt 240

acacagagan ggaactcaac cgcgtgctcg aagaagtcga tacagatcgc gacggttana 300

tcaacctcga cgaattctca antctctgtc gctcgtcttc ctccgccgna gagatccgtg 360

acgctttcga tctctacgat caggacanna acngactgat atccgcctct gaancttcac 420

nacgtgctta aangtctcgg gatgtcttgc tctgttgann actgtaagcg tattatcgga 480

actgtggatn ctgacagt 498

<210> 4510
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-034-Q1-E2-G12

<400> 4510

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agcgtttccg gtgaatcctc tctctccgat atgattcaga cagttcattt ttcctctgga 180

aaccctagaa tcggcgagac tcgcggtgtc atgcatctaa tttccgacaa tgctgtttcg 240

tcatcttctt cttcctcctc ctcgaatctc cctattggaa ggaaccctct cgtttgcgtt 300

cttggggtgc ccaaccacat gacatatgca gatttttgcc agttctgcgg ctccttcatt 360

cagcacatac tggatatgcg aaccgtcagg aatgatgaca ttgaaaataa gatacagcat 420

tttgataagg tttgatagtc aggaatctac cgatacatt 459

<210> 4511
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-G2

<400> 4511

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cgaaggcaaa acagcgtttt ccttcgaatt cttcccacca aagacagaag atggagtcga 120

caatctcttt gagagaatgg atcgaatggt tgcttatggt ccaacgtttt gcgatatcac 180

ttggggagct ggtggatcta ccgcagatct aacgcttgat atagcttcga ggatgcaaaa 240

cgttgtttgt gttgagagta tgatgcatct tacgtgtact aacatgcctg ttgagaagat 300

tgatcatgct cttgagacta ttagatctaa tgggattcag aatgtgcttg ctcttagagg 360

tgatctcctc atggtcaaga taattgtcaa gttgaagtgg tttgattgtc ttggatctgt 420

taacacattc gtacaagt 438

<210> 4512
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-G3

<400> 4512

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acttgctgag aaattcatcg aatttgttga acaattctta tggcgatttc gaaaggtaga 120

ttgaaagttt ggttcgataa gaagatcagt gaaccactta tccagatctt gcgcagaggt 180

gctgagccaa agcagctggc tttttctgcg gcattgggta ttaccatggg agtatttcca 240

atctgtggtg ttacggtgtt actatgtgga gtggctattg cgtcgcttgg atctctttgt 300

catgctccaa ctgtgatgtt ggctaacttc attgctactc caatagaact aagtcttgtg 360

gtgnccttcc ttacgacttg gcgaaaaaat aaccggtgga cctcaatttc cttaacaacc 420

ggagncctaa agaaggtttc aaaagggc 448

<210> 4513
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-G5

<400> 4513

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tangagctca tggtgtanca agctcttcat aggtacaaat acagtggagt ggatcactct 180

tatcttgcca tatacgtcct ccaacctttt tggactcgat ttgtcaaagt cttccctcta 240

tggatgccac caancatgat aacgcttatg gggtttatgt ttctagtcac ttcctccctg 300

ctaggctata tatattcacc tcagttggat tctcctcctc cacgatgggt tcacttcgca 360

catggtttac ttctcttctt gtatcaaaca tttgatgctg ttgatgggaa acaagcaaga 420

nngacaaatt cctctanccc cctatg 446

<210> 4514
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-G7

<400> 4514

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gattcatgcc agatgctaaa ggaatggatc cagtccctgt attccagtct gaagttgaaa 120

atttggctta tcctgataaa catgaagaaa gtattgcctt tggtatggta aatttatcaa 180

atgagagtag tagacatgag agtcatgaga gttctttcag tgatcagctt ggtgatatgg 240

atcaagatta tactgttgaa tgcgagtcta gcgcgaatga tgaggtcagt caccaggttt 300

ttgatgttga aaacagttcg actcatggta gtcctcatgt angcaatgaa ttttttanaa 360

agggtcgctc ntgaaactaa ggaggtttgt ggtaaaatgt tggtcccact aatgcgccac 420

tgaancaact ataaacgaaa ttaata 446

<210> 4515
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-034-Q1-E2-G8

<400> 4515

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tcatccccaa acacacacaa actaaaaaaa aggcaaaacc ctagatccaa gatcagacct 120

aatctaatcg aaactcatag ctgaaaaatg aagagagatc atcaccaatt ccaaggtcga 180

ttgtccaacc acgggacttc ttcttcatca tcatcaatct ctaaagataa gatgatgatg 240

gtgaaaaaag aagaagacgg tggaggtaac atggacgacg agcttctcgc tgttttaggt 300

tacaaagtta ggtcatcgga gatggcggag gttgctttga aactcgaaca attagagacg 360

atgatgagta atgttcaaga agatggttta tctcatctcg cgacggatac tgttcattat 420

aatccgtcgg agcttaatct tggct 445

<210> 4516
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-G9

<400> 4516

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gcttcttcac tcgacttgta tctatcatcc atggcttccg agaatccttt ccgaagcata 120

ttgaaggcgt tagagaagcc tgatggtggt gaattcggta actactacag cttacctgct 180

ttgaacgatc ccaggatcga taaactacct tattccatta ggatacttct tgaatcggcc 240

atacgtaact gtgatgagtt ccaagttaag agcaaagatg ttgagaagat tcttgattgg 300

gagaatactt ctcccaaagc aaggttgaga ttccgttcaa gcctgctcgg gttcttcttc 360

angactttac tgggtgttcc tgctgttgtt gatctgcctg catgagagat gccatgaata 420

atctcggtgg tgaatccaat aaaattaatc cgctggncc 459

<210> 4517
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-H1

<400> 4517

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gtaatactat accttgaagg tccacctcca cgagctgaca ttcttctcaa cagtttagtt 120

gttcaacatg ctaaaaggaa tcgtccatcg cctcctcctt tctacgagaa tcctggtttc 180

ggagtcaata tagtcgaaaa cagtgaagtt ttagatgggg gaactaaacc atggttcact 240

ctagggaact gcaagttgag tgttggacaa ggcgctccgc gcactctgcc tccaatggcg 300

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aacgcagact tggttggtcc tgctcaagat gatnaaccga taaaatcaaa ctcctcctta 420

catatcaaat ctcaaccttg gtcaaacctt ggg 453

<210> 4518
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-E5

<400> 4518

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accggaacca gccaaaaagg cgacaaagaa aaacagggtt tgggatgatg cggctcccaa 120

acaatcgaaa ttggacttca cggattccat cgatgaanat gggaacaatg atcatgtana 180

tattgtggct gctgaccaag gagaaagtat gatggacaag gaagaggttt tcagcagtga 240

tagtgaaagt gaagatgatg acgaaccagg aagtgatgag aagcctgctc aggctaagaa 300

aaagggatgg ttttcttctg ttttccagag tattactggg aangcgaatc ttgaaaggac 360

agaccttgna ccggcgttga aanctctgaa ngaacggctc atgaccanca atgtggcaga 420

aganattgct g 431

<210> 4519
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-B6

<400> 4519

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tctacatcac tctctctanc ggtcaaatct tcttcaataa gtgggtattg tcatctaagg 120

aaataaactt cccttatcca cttggattga cattacttca catgactttt tcctctgttt 180

tgtgttttct cctcacgaag gtttttaagg tcatgaaggt tgaggaagga atgacattag 240

aaatatatgt tacatcagtt attccaatag gtgcaatgtt tgcaatgact ctatggttag 300

gaaacactgc ttatctctac atanctgttg cattttccaa atgttgaaag ccatcatgcc 360

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ttgaaatgtc 430

<210> 4520
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-B9

<400> 4520

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attttcaggt tctttgacac agattctggt aatgttagga ttgatggtca agatataaag 180

gaagtgacac tagagagtct tcgaagctgc attggagttg tccctcaaga tactgtgctc 240

ttcaatgaca caatatttca caacattcac tatggaaacc tttcagcaac agaagaagag 300

gtgtacnatg canctaggca accagtgatt cacgatacga tcatgaaatt tccggataaa 360

tattcnaccn cggtgggaaa aaganggctg atgctgattg gtggaaaaaa acaaagantg 420

gcacttgcnc cngcctttcc ngaaatcaca agcg 454

<210> 4521
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-C1

<400> 4521

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atcttcccaa agttgggcga tctgacaata gatcactgtg atgatctcgt ggcactacct 120

tcaagcattt gcggactgac ctcncttagc tgcttaagca taacaaattg tccacgcctc 180

ggtgaattgc ccaagaacct cagtaagcna caagctctcg agatctttag ctcanggcaa 240

gcatatagcc ttaagatttc gacatctcac aatgtgtcag cctgagttgt cttccatagg 300

aaataggaaa gctaaagaag cttgagaaga tcgacatgag aaaatgttgc ttccgggata 360

naacgagctc tgccggttca ctgaaatcct ctgcgccatg ttancctgcg ataccgacgt 420

tgcattaagt tggaaagaag ttgagaaagn t 451

<210> 4522
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-C12

<400> 4522

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atgtcgctca ctctttttac cttcctggtg ttgctcctca ggatttcgaa aagggagatg 180

aattgaaagt gaaagtaaac aagttgacat ctataaagac tcagcttcca tattcgtatt 240

actctcttcc tttttgtcgt cctaagaaga ttgtggacag tactgagaat cttggtgaag 300

ttcttcgtgg tgaccgaatc gaaaatgctc cttattcgtt taaaatgcgt gaggcgcaaa 360

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anattgatga 430

<210> 4523
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-C2

<400> 4523

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ggtcgctggg tcgtttcaga gaaagctgaa taccaaggtg tgtggaagca cgagaagagt 180

gaagggcatg atgattatgg acttctagtg agtgagaaag ctaagaagta cggaatagtt 240

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gaggctcgtt tccaagaagg gcttgagtgt ggtggtgctt acttaaagta tctccgtcct 360

caagaaactg gatngggttc ctcaagggtt tgataatgaa tcctcctaat ccaacaagnt 420

<210> 4524
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-C3

<400> 4524

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aactcgcggt ggagccaacg cggcgaaatc nctgttagtg gcggctggac cacntttgtt 120

ctcgacggtc cgtacggttt cntctcacna ggctttatca gcaagccata ntttgaaccc 180

tggtgttaca tctgcttgga tatggacnag agctccgacg attggangta tgatattcgc 240

tancacgatc actctgggan ataaaactcc gatgaacgat gaagacgcga atcataaaga 300

tcacagagaa cgaatccaac gngtggagaa cgccgccgga nggtaataac annggggaaga 360

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tggntcctga atgggaantt ggnactgntt caaggccaat gggaa 465

<210> 4525
<211> 516
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-C4

<400> 4525

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tcaggtggtt catcgcggaa gatgacgcct atctccagga ccaactccgt cgaatcatta 180

tccagctacg gcgagagatt cgccggcggg aagatttcga tcgaggttaa ggctaatgta 240

gggatgcgga gggtgttatc ggaaagtgat gtgattagat ctgagagaat gttgaaaaga 300

gttggatcta agccttcgcc ggcgagaatc ccggaggatg atgaagcggg ggaagaagaa 360

aattangttt gcaagatggt tgggggtcct atgattctcc cggtgggttt aacctgtngg 420

anggagaaaa tgtttcaacg gggttggccg tnttttggtn gttngattct gggntaaaac 480

cggccgggtt aatggaaacc ggaaggaagg aaggcc 516

<210> 4526
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-C7

<400> 4526

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tcccanttga cccatttgaa atcanccttc aaagctgtca aatatangcc tctgccatcg 120

tctcgctcca agtcatcatc cttctccgtc tcctgcacca tcgccaagga nccgcctgtt 180

ctcatggcng ccggatctga cncggccctg tggcaangac ncgnttcgtt cggtcggttt 240

gggaagtttg gtgggaanta tgtacctgaa acccttatgc acgcgctatc tgagcttgaa 300

tccgctttct atgctcttgc naccgacgat gatttccaga agagagttgg ctggaatctt 360

gaagggacta tgtgggtaga gaaantcctc tgtattngca gagaggttac ngagcaa 417

<210> 4527
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-C9

<400> 4527

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atcttttgag aaaggcactg tgcaccttat tggtcttcta agcgatggtg gagttcactc 120

tcgtttggat caagtccagt tgctgcttaa gggttttgca gaacgtggtg ctaagagaat 180

ccgcgtccat atttttactg atggtcgtga tgttttggat ggttctagtg tcggatttgt 240

tgaaactctt gaagctgacc tanctgcttt acgtgcgaaa ggtgttgatg ctcangttgc 300

atctggtgga ggtcgaatgt atgtcacaat ggaccgttat gagaatgatt ggagtgttgt 360

taaacgangt tgggatgcac aagtccttgg ggaaactccc canaaattta aaaacgctcc 420

tgaagcantt aagacactga agggnaagaa cctggtgg 458

<210> 4528
<211> 513
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-D12

<400> 4528

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attcggatca aaattgtctt caagcatcat ggatccatac agggttcgtc cttcaagcgc 120

tcatgattcc cctttcttca ctacaaactc gggtgctcct gtctggaaca acaactcttc 180

tttgactgtc ggaactcgag gtccaatcct tctggaggac tatcatctgc ttgagaaact 240

cgctaacttt gacagggagc ggattcctga nagggttgtt catgccaggg gagccagtgc 300

taagggtttc tttgaagtca ctcatgacat tacccaactt acttctgctg attttcttcg 360

aaggacctgg tgttcaaact cctgttatcg ttcgtntctc aactgtcatc catgaacgtg 420

gcantcccga nactctcaga gattcccgtg gttttgctgt taagtttaca ccaganangg 480

gaaatttgat cntgttggga acaacttcct gta 513

<210> 4529
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-D2

<400> 4529

ttttcgaaac ttctctcagg cgaattcaag tttcatagtt ttggtctagt ttttgtccac 60

cgatctatct ctttagttga aacttatcag aatggctcgt ccacaagacc ctccacgtgg 120

tttcttccct tttggaaacc ccttcaaaaa tctatcttcg aagaactcgg tactctcctc 180

aaagcttctc ccactcctga acaattttga gaccaactta gcatcttcta ttagtaagct 240

tgtccctaag gaaaagagcg atatcctgac tgtctcatgg atgaaacaag ctatggaatc 300

tctttgcgag acacataatg gtatcaagac ccttataacc gatcttgacc ttccngtatc 360

agattgggaa ggataaatgg gttgangtca accttgaaat tatngtgaac cttcttga 418

<210> 4530
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-D9

<400> 4530

ggagagatag agagagagaa agaggcgaaa ataatggcgt cgatccctcc gccggagctt 60

gacaacgact cactggcgtc atcgccgaga tcggagtacg atagtcagcc acgcgtacgg 120

ttcatgtgta cttttggagg aaggatcttg ccacgtccgc cggataatca gctctgttac 180

gtcggcggcg ataatcgcat ggtcgctgtt catcgtcaca ctactttcgc ctctctcctt 240

agtaaacttg ctaaactctc cggtaaaagc aacataagcg tgaagtacca gctaccaaac 300

gaagatcttg acgcgttgat ttccgtatca acggacgaag atgtagagaa catgatggac 360

gaatacgacc gcgtcgcaca naatcaaaac ccangcgcct ctcgtcgtcg tcttttctct 420

tcancaaaaa ctcc 434

<210> 4531
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-E1

<400> 4531

ttttctctct atatacgtcg ccattgttgt tgcattcgaa gcttttatag aagaagtaan 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnncgt gatggagaaa 120

aacacaccgg tgaggaaacc acacatgtcg acggcggatc tactcacttg gccggagaat 180

caaccgtttg agtctcccgc cgccgtatct tctcgctccg ccgccagatc gcaccagccg 240

tcggatggaa taagcaaagt cgtatttgga ggacaagtta caagatgaag aagttgagag 300

cttgaacaag aggaagcctt gttcaaatta caagatgaaa gagatnacag ggagtggaat 360

attctctgtg tatgaagaaa atgatgattc cgagttagca aagtgctaan tcccgccaca 420

aaacggnaaa tcaagaactt ccaacaaaca 450

<210> 4532
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-E3

<400> 4532

aactgtttac gcctgccggt agccgtccga aaattccngg gtcgacccac gcgtccgatc 60

gagtacagga tctcactcta gcagcgagag ctcttctctc accgcttcta actctaccac 120

cgtcgccgcc gtctccgtca ccgcggcggc ggaagttgct tcgtcggtta ttccaggttt 180

tgatatgcct aatatgaaaa tttacggtaa cgggatcgag tggtcgacgt tacttggaca 240

aggctcatcg gccggtggtg ttttctcgga gatcggtggt tttccggcgg tttcagctat 300

tgaaactaca ccgtttggat tcgggggtaa attcgtaaat caagatgatc atctgaagtt 360

agaaggtgaa actgtacanc ancaacagtt tgggagatcg aacggctcaa gttgagtttc 420

aaggaagatc ttcggattcg aataagggaa ttgaaccgtt ggattgggga anttgcngtg 480

gagattaaac actggttgat taanc 505

<210> 4533
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-B5

<400> 4533

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cnggaacttc gacggtgaag agaaaaccgg tgtttgtgaa ggtggaacat ctaaagcctg 120

tgaactactg gtcacacgtt gactgttaaa ntcattgagg ctaatatcgt ggttcctgtt 180

acccggaaga ctcgtccagc gagttctctg agtcgtcctt ctcagcctag tcgaatcgtt 240

gagtgtctca tcngtgacna aactgggtgt atcctcttca ctgctcntaa cgatcaagtt 300

gatcttatga anccggntgc tacggtgata ntgctcaatt catggatata catgttcaag 360

ggtanantga cgctangagt tgatanatgg ggaccatcga aaccactgga tccncgtcnt 420

tcactgtcaa aggagg 436

<210> 4534
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-H3

<400> 4534

ccgaaaattc ccnggtcgac ccacgcgtcc gcccacgcgt ccgaagaaan nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn naaaatatct atcggttgaa gaagatctga agcttaactt 120

tgctctgtta cagactctca gggatctgcc ggctacaaag tccggtggat agtgttatta 180

ttagacaatg gcgtctaata atcatttcat gaacagtaga tccaatctat caacaaactc 240

tgatgctgct gaagctgaga ggcaccagca gcctgtgtca aattctgtga catttgcccg 300

caggactccc tctggccgat atgttaacta ctccaagaga tgatctcgat aacgaacttg 360

gaaatgtttg atttaactgg gctaatcggt tcaaaatcct ccaactccgg ntaaccaacc 420

taaggattcg tccanctctc aaaaagttga ngancantat gtctcgaaat ccctgttcac 480

gggg 484

<210> 4535
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-H4

<400> 4535

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aaaagcgacg ccgttttaaa ggagatggat aaacaaccgg cgaccaagtt ggagtatcca 120

tacccggccg gagataatcg ccaagtacga agatcttcga gcgagtcgga tccggagctt 180

acgccgacgt ttacagagct cgccgtctct ccgacggtct aatcgtcgcg ctcaaggaga 240

ttttcgatta ccaatctgcg ttccgggaga ttgacgcgct caccatcctc aatggatctc 300

ctaatgtagt tgttatgcac gaatacttct ggcgtgagga agagaacgct gtgcttgtgc 360

ttgagtttct tangtcggat ctcgctgcgg tgatccgaga tggtaagaag aagaagaang 420

tagaaggaag ggatggattc ccgttgggga aattaagaga tgggtgattc aaattttaan 480

cggtgttgat gccttgtcan cc 502

<210> 4536
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-H5

<400> 4536

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ggagacgatg aagttcaacg tcgccaatcc gaccaccggg tgtcaaaaga aactcgagat 120

cgatgacgat caaaaactcc gcgccttttt cgacaagagg ctctctcagg aagttagcgg 180

agatgctcta ggcgaangga attcaaaggg gatacgtatt caaagatcat gggagggatg 240

tgacaaagca agggttccca atgaaacaag gaattcccaa ctccaanggg cgtgtnccgt 300

cctttgcctn aaccgaaggt aatccttggt ttaaaggaca cgggaaagga ggactgggag 360

aagaaggaga cgaaaagtcn gtcccgtggt ttgcaatgtg aaccctgacc tgtctgttcc 420

taacttggtc aatgtgaaag aaaggtgtaa gttgatcntc ccg 463

<210> 4537
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-H6

<400> 4537

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tggagaatca atctgatgtc atgcgttaca tacccaatgg tcataanaag gctttgcggc 120

aacaaaatac ggcanaaact aaagatcact tgttttctgc aaattatggt ggaatgagtg 180

ggtatggagc aagtcttggn gcttctacag tgggttccca tggacatgtc aacatcccta 240

aacgaacctc ctcttcancg agtctctact caacttcaga ccattcnaga ttangaagcg 300

tgggcttatc tgatgtcaat attangaatg gaaatattaa tggaacagac ttctccacag 360

ctggtggtta tatggcaaag aacaagttga attcattagc tgagcactat tccgctgaan 420

gccacatttg actggggat 439

<210> 4538
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-H7

<400> 4538

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tccgggttgc tggggttctc aaagactgga ttctcatagc cctctccact gtcatatttc 120

ctgagtccac aatcactggg ctgaatataa ctggatatgc tatagcgctc tgtggtgttg 180

taatgtacaa ttacataaaa atcaaggatg taaaagcgat tcaaccaacc actgacagcc 240

tcccagatcg aatcacgaag gactggaagg agaagaattc gtcagatggg gggagcccca 300

gaggattgga gcttaacgat gaagaanccc ctctgataac gtcgcggttg tcgcatattg 360

gccggactca ncttggaaac acacggcagt ctganaatga ccgttaatgt tgttcacttc 420

caggtgaaaa tgtctttaac ccc 443

<210> 4539
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-A1

<400> 4539

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tgacaaacac aactcgttac tattctacga cagacttgaa gaaagaaggc attaagcatg 120

tgaagattgc atgcaagggt cgtgatgcag tgccagataa tgtgtctgtc aacgcatttg 180

tcaatgaggt taatcagttt gtcctaaatc taaaacactc gaaaaagtat attctcgtcc 240

attgtacaca tggacataat cggacagggt tcatgatagt tcattatctc atgcgatctg 300

ggccaatgaa tgttacacan gctttgaaaa tcctttccga tgcccgccca actgggatct 360

ataaaccaag attatattga tgccttatac tcgtttatca ccaaataaaa cctgaaagcg 420

tcatttgcca tcaactcccg aaagggaaaa 450

<210> 4540
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-A10

<400> 4540

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nnnnnnnnnn nnnnnnnnaa gtgaaaaatg gncgatggtg aggatattca gccacttgtc 120

ngtgacaatg gnactggaat ggtgaaggnt ggttttgctg gtgatgatgc nccnatagca 180

gtgttcctaa gtattgttgg tcgtcctaag cacactggtg tcatngttgg tatgggtcan 240

aaagangcat acgttggtga tgaagctcag tccaagagag gtatcctcac tctgaagtat 300

cnantccaac atggtattgt nagtaantgg gatgacatgg taaagatatg gcatcanact 360

ttctacaacg atcttcgtgt tgcccctgag gaacaacnaa ttncaatcaa aagggtaact 420

cttaanccta 430

<210> 4541
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-A2

<400> 4541

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tctagtagaa agagagaagg gcgtgaattc ctgagcgaga gattcttcgc cggagtaatc 120

tctttgcgtg atcttaccgg ctgcttaatt cgtcttcgcc tgattcgttg gtttcaaaat 180

tcgtctctct ctttcaatcg gaggttaatt gtttttctgt ttgggggtca aagcgaagat 240

ggtgaacgct atggtggaga gagcgacgag cgagatgctg atcgggcctg attgggctat 300

gaacctcgag atctgtgata tgctcaatag cgatccagcg caagcaaaag atgttgtgaa 360

aggcattaaa aaacggattg gtancangga atccaaaagc tcaaccttct tgcccttaac 420

tcctgcttga anacaataat gaaanaactg ttggtgacaa tgggtcaaaa atgcaatttg 480

gcttaaaaaa aggggttaat caa 503

<210> 4542
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-034-Q1-E2-A5

<400> 4542

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agatattgat cagatcagca gagtgaccaa tgtgctggga aatttaaatg aagaggtctg 180

gcctggttgt gttgatcttc cagactacaa gtcaatctca tttgctaaag tagaatctcc 240

tcttggtatt gaaggatgcc ttcccaacca ttcaggggat gtgatatcgc tgctcaagaa 300

gcttatctgt tatgatccag ctagtagaag ctactactat gggagatgct gaatgacaaa 360

tatttaagtg aagagcctct tccagttcca gttcagagct ctatgtgcct ccgacaatga 420

gtggaccaga tgaggatccc cga 443

<210> 4543
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-A7

<400> 4543

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nnnnnnnnnn nnnnnnnnnn nnnnnnntct ttgacttttt ttgacaccgt agtctctttc 120

cccttccatc gatttagggt ttccgatttt caaaatctcc tttttatttg tttcctctcc 180

ttgtgcaatt cccgtctcga atccatcttg acctgggggt ctgatccgat ctccctctaa 240

tcatatcgtg aagcgagatt atgtttttgt gctgcgcttc tgctttgatc gcttaggatt 300

atcaatcgtg ttatgatggt gggtactcaa aatttaggtg gttcgttgcc gccgctgaat 360

tctcctaaaa gctatggaat tacgaagccg ctctctcttg ctgggccttc ttcggcggat 420

attaagcgta atgtggagct g 441

<210> 4544
<211> 506
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-B1

<400> 4544

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnntctcaa ctctgtgaaa acctcgtcct 120

tgttcttctt ctgcttctcc cattccttcg atttttgctt caatggatgt ttgatttgct 180

ctctgactgc gtttgtttac tatactatgg accctgagag tatcatggct gctgatggga 240

ctgattctgc tcctgcaaat ggtggtttag caatggaaaa tgtatgtgtt aaagaaaatg 300

gggctgtttc tgtcgaaacc gtggacacta cttcagaaag tcagaatgag aattcggcaa 360

acagttccac tttggataca attgaacacg tcaaggaggc aactgaaggc acacaaattt 420

gaacatgtnn atgattcaaa ntgtatgaaa agggaaaaaa ctcaaacgga aaccaaaggn 480

atgagaaact atcaaggtgg gtaana 506

<210> 4545
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-B12

<400> 4545

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atccggtcgg gacgtctgct ccggtggttc tgatcttaga acccccgata ttcgtcttaa 180

ccggccgaca gactctgtcg tcggaaactg cccgacggag gcgagtcctt tagttatggc 240

tgacgacgag aagtacggta acaaaatggt tatcaagtct cactcctcgc ctttatgact 300

atgtcctcaa caacgttcgt gagcatgaga ttttgaagca acttcgagaa gaaactgcca 360

ttagtcaaat tcangtgtca cctgatcaag cgcaattgct tgcaatgctt gtanagattc 420

ttggagctaa acnatgtatt gaaatttgga gttaaacn 458

<210> 4546
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-B4

<400> 4546

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gacatttgtt taagatactc ttgttcctgg aacacatacg aanatnaaga aagtcntcgg 120

acaaactgtt agagacctta agagagaggt caacaagaaa gtgctcaaag ttcctggagt 180

agaacaagaa ggttctatga tgctactagt aatgagccat ggggtccaca tggatcactt 240

cttgctgatc ttgcgcaagc ttccagaaat tatcatgaat atcagctgat catggtggtc 300

atatggaaac gccttagcga caccggaaaa aactggcggc atgtctataa ngncttgaca 360

attttggngt acaaggtaag gcaagggtna anaaccttgt tannaccaan atttgngaac 420

gttcatatca aantttca 438

<210> 4547
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-H2

<400> 4547

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tccttctctc tctctctctt ctttctcaaa gagtaaaatg aaacacaatc tctgatgtga 120

agtcggttct gtccttataa atacccatta agacttctct ctctctctct ttctcaccaa 180

atagtttcat catctcttct tcactaaata cttagacaga gaaaacagag ctttttaaag 240

ccatgtctct tcagtatcat gttctaaact ccattccaag tacaaccttt ctcagttcta 300

ctaaaacaac aatatcttct tctttcctta ccatctcagg atctcctctc aatgtcgcta 360

agagacaaat ccaagaagcg gttccataca ttgttcaaaa gcttcgaact caagaataca 420

ttaattctca aaganggtca acatg 445

<210> 4548
<211> 352
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-G5

<400> 4548

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gagagggccg ttcagactga ggattggatt ttattggtac tgagagtggg aacgtagtca 120

ttcatgagtt aagttttgct tggaatggtc gtgagaagtg ggtcatcgtc tttttccctt 180

tgcgttgtgt tgtgtgatgt tggtacgggt tatcttcgtg cttcttgtcg aattgagtat 240

attgtatcag taaagaattt ataacttaaa aagagcctta tgtcaaatac gacgtcgttt 300

tgtatggaaa tggatttttt acaccgctga aaaaaaanaa aaaaaaaggg cg 352

<210> 4549
<211> 512
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-H3

<400> 4549

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ggctacaaag tccggtggat agtgttatta ttagacaatg gcgtctaata atcatttcat 180

gaacagtaga tccaatctat caacaaactc tgatgctgct gaagctgaga ggcaccagca 240

gcctgtgtca aattctgtga catttgcccg cangactccc tctggccgat atgtcaacta 300

ctccagagat gatctcgata ccgaacttgg aagtgttgat ttaactggct antccggttc 360

acattcctca aactccggat aancaaccta agggntcgtt cnanctctca aaaggttgag 420

gnncaattat gtcncaaaat tccttgttcn angggcgggt tttaaaaggg tcnactccgg 480

ntcanccnta anggaaaaaa gtggnttcaa aa 512

<210> 4550
<211> 515
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-H7

<400> 4550

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tccgggttgc tggggttctc aaagactgga ttctcatagc cctctccact gtcagatttc 120

ctgagtccac aatcactggg ctgaatataa ctggatatgc tatagcgctc tgtggtgttg 180

taatgtacaa ttacatanaa atcaaggatg taaaagcgat tcaaccaacc actgacagcc 240

tcccagatcg aatcacgaan gactggaagg agaagaattc gtcagatggg gggagcccca 300

gaggattgga gcttaacgat gaagaagccc ctctgataac gtcgcggttg tcgcatattg 360

gccgggactc agcttgggna accacacggc agtctgagaa tgaccgttaa gttgttcact 420

tctcaggtga aaatgtcctt taacccccntt tggaacccaa aacagtttta aataggaatt 480

tactccggat tacntaacaa ttgttagttc tanaa 515

<210> 4551
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-A1

<400> 4551

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tcgtgttcgt aagcaaaaat ggtttgggag aaagagaaga tcgtcggaag ttgtatagtc 120

ggaggagctg cgttcgccgt cggagcttct ttccttcatc ttttccttaa aggtgagctt 180

ccgttaggat taggtttagg tttgtcttgt ccatggcgca ttttgagaaa acgaaaacct 240

gttcgcgttt acatggatgg ttgcttcgat atgatgcact atggccactg caacgctctt 300

cgtcaagctc gtgctctcgg tgaccaattg gtcgtcggtg ttgtttccga cgaagaaatt 360

atagccaaca aaggacctcc tgttactcct cttcatgaaa gaatgacaat ggtgaaagct 420

gtgaantggg tggatgaagt tatatctgat g 451

<210> 4552
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-A10

<400> 4552

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ggattctcta cagacagtat tgtctccgaa catggtgtta aagctcctaa tgttgtgtat 120

aaaggcagac ttgaagatga ccgatggatc gctgttaaac gattcaatag atccgcttgg 180

cctgatactc gtcaatttct tgaagaagca aaagctgtgg ggcagttgag gaatgagagg 240

ttggcgaatt tgattggatt ctgttgtgaa ggagacgaga gattgctcgt tgctgagttt 300

atgccttttg aaactctctc gaagcatctc tttcactggg atagtcagcc aatgaagtgg 360

tctatgaagg tnaaaatggc tttgtanctt gcacaagcac ttgagtattg tancagcaaa 420

aggccngcct tgttcaccat tttaagccta aagga 455

<210> 4553
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-A12

<400> 4553

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ttggatgagt atccaacttc atccggtggt ggtcctatgg atgatcctga tgtgtggagg 120

cctcctaccc gtgatgttac tagtcgaaga cccgccaggg ctggtcaaac tggtactaga 180

aaatcacctc aagatggggc ttgggctcgt ggccctacta cacggaccgg tccagcttcc 240

cgtggtggca gaggtggggc tactagtaag tcaactgcag gtgcccgctc ttccactgcc 300

ggaaagaagg gagctgcctc aaaatctaac aaggctgagt ctatgaatgg tgatgctgaa 360

agatgggaaa tcaaaaaagg gaattgtatt aagggacctg atnaaggact tgctgctaag 420

cttgaaangg aatttgttgg ctcaactnc 449

<210> 4554
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-A2

<400> 4554

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tggaactcca cgccggtaac cggaaaaagt tactagaatc aatacgccgt cagttatcta 120

gttccaatcg ttctctcgat ggatttgttc ttctacaggg tggcgaggag aaaaatcgat 180

actgtactga tcacaccgag ctcttcaggc aagagagtta ttttgcttac ttgtttggag 240

tcagagagcc agatttctat ggagctattg acattggaag tgggaaatct atccttttta 300

ttccaaggtt gcctgatgat tatgctgttt ggttgggaga gattaagcca ttgtcgcatt 360

ttaaggaaac atatatggtt gacaaggntt tcnatgtgga tgagattaat caagtcctta 420

atgaacaatt taangga 437

<210> 4555
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-B1

<400> 4555

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gttccaagaa attcctctac ttaatacagc tgattctaca gattcctgct acgaaatttc 120

tgggtctggg ttgatctttg tctcaccagt caacccaatt caggactttg ataaaggtgg 180

aaatggcggc tttattagct tctcagagct gctgctatgg cggtgagacc gcaagagtca 240

ccaaagctat tggtttcagt agctctttgg agaatcattt cactggggaa gccactcagt 300

gttatggcag caagtctaag agatttcgta ttgagatgag acagtcggaa ttgccctcta 360

aggttggaat caatggacgt tcagtcaaaa tggttcctgc gagtgaggtg gtgaagagga 420

aagatggtgt gaatggatcg gctgggaaag gtgttaatgg agcaatttgg ttaatagtag 480

aaacattaat ggtgcggc 498

<210> 4556
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-B10

<400> 4556

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnaatc acagagagac tctcttctcc 120

agatctatca tttggtttaa tcaaggttag ctagtgaaca tggcaacggg ggctgagaac 180

caatggctta aaggaagagt gaaggctgtt acctccggag actgcttagt gatcacggct 240

ttgagccaca acagagctgg acctccaccg gaaaagacca ttacttttc ttctcttatg 300

gcacctaaga tggctcgcag angaagtata natgaacctt ttgcatgggg aaagcaaaga 360

anttttgaag aaacttgcat aagaaaagga ggttcaatca aaattgaata anaagtggna 420

antaattgct ggnaaaaaaa tttgngcccg ttttccttgg aaaaaaa 467

<210> 4557
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-B12

<400> 4557

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cctcgttgcg attctaacag gggggttgat ccatgcggtg tgtagtctag tccggccaca 180

gaattacgat tggtcgacga cgagggagat caaagtagtg gaagcgtatg cttcagggga 240

cgaagatgtt gatgttcctg ccgaagagct aagagaagag aagctgagaa gagccaaagc 300

ttggattgtg aaatggggtc ttgtcttcac tatcctcatt gttgtcattt ggncaattct 360

ctctctccca actcgcgtan ttagcaaagg atattccggg ttttgggcaa attgtggcaa 420

tancttggg gaactatang gttcatccgt gataattggg tttgccaatg 470

<210> 4558
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-B3

<400> 4558

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tttccgaaaa tctttttaat gaaaaaagag cagacaggac gagaattcgc ttttctgaat 120

cctttagagt attgttttct ccgtcgaatt cgcatgaaca cttgagctca acaagacggc 180

gtggaagtgg acggtgaggt agttttttt agtttttgaa agacatggcg caaaacgggt 240

acttggttcc agcggatcct tcggcggttg tgacggtgaa gaagaaaacg ccacaagcgt 300

cgtgggctct tattgacgcg acgggacaga gtgagccact cgatgttgat aagtatgaga 360

tnatgcaccg tgtccagatt cacgctcgcg atctccggat tctagacccc aatttatctt 420

aaccttccac tattcctggg cgaaagagag 450

<210> 4559
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-B5

<400> 4559

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ctttgatcaa actcaaaatt gaagaccaat actttgaagg attctggtaa agctaagcaa 180

ctatgagttc aaattcatgg gctgatgttt ctgaatcaga gagggcacca tctggtggtg 240

gttggggtta ttctcgtccg tctcgaacca actatgttcc tccacatctt angagccgta 300

caccatcttc ggagtttgtt gctccttcac ctggtaataa tgatcgtggg ggatatggtg 360

gtgcaaataa tggttatggt ggtcgaagcc aaggttatgg tggtcnaagt tcgggctatg 420

gtggtagaag aagtc 435

<210> 4560
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-B6

<400> 4560

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atagtgctgc ttcntcntct ctctgagact ctcacaaaat anaaacacag agatcgntan 120

naagctttna gctccagatc tgtggaaccg ccatagctat ggagttttag agaagttcna 180

ggaaggatta caaattcttg gatctgtgat tcttctgctc tctattcatg tcgctcactc 240

tttttacctt cctggtgttg ctcctcagga tttcgaaaag ggagatgaat tgaaagtgaa 300

agtaaacaag ttgacatcta taaagactca gcttccatat tcgtattact ctcttccttt 360

ttgtcgtcct aagaagattg tggacagtac tgagaatctt ggtgaagttc ttcgtggtga 420

ccgaatcgaa aatgctcctt attcgtttaa aatgcgtgag gcgcaaatgt gtaatgttct 480

cggtcgtgtt atgcntgatg ca 502

<210> 4561
<211> 537
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-G1

<400> 4561

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aacacttacg cagaaacaaa aactaaactt tggatctttt aaccgaccat agagattcgt 120

gggttcttct tagtttcgac agattcttga tccgttttag ttgttacgct catctttgct 180

tttatacatc agacccttct cttctcttcc ttctttatct aagaaacatt agggttcttt 240

gaaatcttgc taaaaaaaat gggtgttgag aaaatggtgt gtttagcttc tcgtacgggt 300

cgtcagtttc aagagataca acanagggtc gtcgtcaaag tcnttggatg tgttccttaa 360

cagattcaan gctatccnat gatgggnaaa tnagtganga agtagnaagn ttcttggtta 420

acccccttccc aaaaaaaggg cacgccctta atggttnccc caaangggtg ggttggggaa 480

ccttgatgaa atcgggtnga aagaannctg natcaaggag aaaggtcctg gaagaaa 537

<210> 4562
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-E3

<400> 4562

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ggtttgtgaa agatcagttt gttgaatttc aggaatcaac cattggtgca gctttttttct 120

ctcaaacatt ggctgtgaat gatgcgactg tgaagtttga gatatgggat acagctggtc 180

aggaacgata ccacagtttg gctccaatgt actacagggg tgcagctgct gctattattg 240

tctttgacat tactaatcaa gcctcatttg agagggcgaa gaaatgggtt caggaactgc 300

aggcacaagg taaccctaat atggtgatgg ctcttgctgg aaacaaagct gatttattag 360

acgcaaggaa aggtgtctgc agaggaaggc agagatatat cctcaagaga acaagccttt 420

nctttatggg aaacctcaac gaaagaccgc aacaaaatgt caaagacata ttccancgaa 480

ataaccaaaa aggctacaac ntt 503

<210> 4563

<211> 510
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-E4

<400> 4563

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acccaaccag agactcccac gtggcagttc tcgcttttcc tttcggcact catgcagctc 120

ctctcctcac cgtcacgcgc cgcctcgcct ccgcctctcc ttccaccgtc ttctctttct 180

tcaacaccgc acaatccaac tcttcgttat tttcctccgg tgacgaagca gatcgtccgg 240

cgaacatcag agtatacgat attgccgacg gtgttccgga gggatacgtg tttagcggga 300

gaccacagga ggcgatcgag ctgtttcttc aagctgcgcc ggngaattcc ggagagaaat 360

cgccaaaggc gggagaagga ngttggtacc ggaagtgaaa tgtttgatga actgatgcct 420

tcctcctggg ttccccggct gataatggcc aacggagata aaangcctcc ttganntngc 480

gnttttggga ccgccggagc aaantcaatc 510

<210> 4564
<211> 530
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-E5

<400> 4564

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cttcttcgtc ttcccaattc tcttcgccgt cttgttcctg ggacttctga ttccctcctc 120

cgccgataac cgccacgtta tcaacttccg atcgccggga ctctacccgg agggactaac 180

ctgggatcca agggaccagc attttctagt cggttctctc cacagccgca caattcattc 240

cgtctccgac gctggagtca tcgaaaccct aatctccgat ctcgatctac cggagaactc 300

cactatcctc ggtctcgccg ttgactctac taatcgccgt ctccttgcct gtatccagag 360

tttgccgcct ctccctccct tcagtgccct agcctcctaa cgaatctccg gnagcggaag 420

gccgttcgtg taancctctc tccgtctccn cgttctccnt cccgggagaa cgaacgaang 480

aacatcggct ccggtgnaag tcngncaaat gaacgttggn cggggtttga 530

<210> 4565
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-E6

<400> 4565

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gtcacctaaa ttcaattcac tggccgtcgt tttacaacgt cgtgactggg aaaaccctgg 180

cgttacccaa cttaatcgcc ttgcagcaca tccccctttc gccagctggc gtaatagcga 240

agaggcccgc accgatcgcc cttcccaaca gttgcgcagc ctgaatggcg aatgggacgc 300

gccctgtagc ggcgcattaa gcgcggcggg tgtggtggtt acgcgcagcg tgaccgctac 360

acttgccaag cgccctagcg cccgctccnt tcgctttctt cccttcccnt tctccgcaac 420

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cgaattaagn 490

<210> 4566
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-E8

<400> 4566

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agtcacagcg gagggagctc atatcactgt ttcccagctc aaaaccttga tcgcggatca 120

gcttcagatc cctctccata agcagacctt atccaccaat cgtgatctcc tcctcgccaa 180

aactcccgct gatctactcg ccttcaccga cctcacggac ccaaacctcc ccctctcctc 240

tctcaacctc ggccatggct ctatgctcta cctcgcctac gatggcgagc gctccattcc 300

tggaagctcc tcccgttact cctgccggat cttcgggaag gaagatgacc gtcgatgact 360

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ttgcgaatgc cgccaangct ttcaacaata agtnaatgag tcc 463

<210> 4567
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-F2

<400> 4567

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atcttcctct taatgtttct cgtgaaattc tccaagaaag cagaattgta agaatcatga 180

gaaagaggct cattaagaaa aacctttgac atgatacaag aaatctctga gagtgaaaac 240

aaagaggatt acaagaaatt ctggganaac tttggnagat tccttaaatt gggttgtatt 300

gaagacaccg gtaaccacaa gcgtatcaca ccgctacnta gattcctcag ttccaagnaa 360

tgaagaggaa ntgacaaagc ttgggatgat taaatcnagg aacatgggag agaacccgaa 420

aggggattta acaaccccnc caactngnaa ntcctnaaag ngnaaatttg gccccttttct 480

tnngggaaaa cattcccnaa gaa 503

<210> 4568
<211> 563
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-F3

<400> 4568

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atgggacgga tcttcgagta cttcgtcgtg tgcggacttg gtccagagat gcgaaccgtg 120

gatggagatc ttggattcca tggaatgcaa acattctact tgcctgctct tcttgaccag 180

ttccctccta ctgatcaatc tccttaccct gcccctcctc ctcagcttcc tacttgtgtt 240

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ccacggagct atccccataa gtccttgaac gggaggggtg atgggattaa aaaataattt 360

ggtcaagttt gcaattggca antttccggg ggaatncnaa ntcctggttg aagggaataa 420

ttaaattgga aagccttaaa ccgcctttaa ccggcccgaa attacattac gcaagnacca 480

aagttggtaa cccggtccct gggggtcccc aaaggccccc caaantttcc cgtgggttcc 540

ntccgtaaat tccccccccaa ana 563

<210> 4569
<211> 532
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-F4

<400> 4569

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tctggataaa accaaagatg cttgagagtt ctttgaaaag acagggtctt accggaactc 180

cttacactcc tctcgtcgga gatataaaga ggaatgttga tatgatgatg gaagcgagat 240

ctaaacccat caatgtaacg gatgatatca ccccacgtct ccttcctctt gccttaaaga 300

tgctcaattc tcacggaaag actttcttca tatggattgg accacttcca acgattgtga 360

taacgaatcc tgagcagtna aaggaancct taataaantc aacgactttg gagaaannct 420

tccaaaatcc ccttngatca anattggtaa ccagggtggg ncttgcaaat ttaccaangg 480

ganattaaat gggccnaant cnnaagggag gnttnatcaa acccgggctt tt 532

<210> 4570
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-F5

<400> 4570

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agcttttctc atgtaaattg acgaatctca caatcactca taccaattgg gtttgcttgg 240

agaaacatga atggggtgat atattcgata tcatcaaacg accgcgttta ttgcgcggta 300

acggtgattc taagcttctt atgatcggtg gattgaaatc gacgttttcg ttgaacccgg 360

cttgttcaac gattctgata cttaggcttg atctagaaac cttggantgg aaagaancaa 420

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ggaggtggan 490

<210> 4571
<211> 510
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-F6

<400> 4571

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gtgttgttgt ggtcgggtat ggaaccgaga atggtcgtga ctactggatt gtgaaaaact 180

cgaggggcga cacatggggg gaggctggct acatgaagat ggctcgcaac attgccaatc 240

caagaggcct atgtggcatc gcaatgcgag cttcataccc tctcaagaac tcgttttcta 300

cggataaagt ttcggttgcc taataatatg aactaaatgt atgccatgga acggatcggt 360

taagccatta tcgttattcg actttgaagg aaactaaaaa taatggtggc cnattggttt 420

ggtttggtaa aaaataagcc attggtatgg gggcaatcca agnttgaacc ttggaaaana 480

attccttggg tccaagtgat aataatttnc 510

<210> 4572
<211> 509
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-F7

<400> 4572

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ctatgcttcc tcttcctcgg ttgcttcttc ttccctaaag acgcagacta taaacaaaag 180

agaagaaaga agaagcttag aagagtnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nggacgtatt taaaacgagt tttcttatcc acgacaagga tatccaaatc ccgtaaccaa 300

acacatccta acgttacttt aacatccgca agatatctca aaactccctc gtcactctcg 360

tcnaacccga taccacaaac caacccgacc cggaaacacg tattcatcag caaaccggaa 420

ttcganatcc ctccttcgac gagattttcc cttgnaacnc gtggnggcna aattttccca 480

aanatcaatc ccctcgagaa tcanatcgc 509

<210> 4573
<211> 514
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-F8

<400> 4573

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aaacagaagt caaggaagca aaaacagagg aaatcaagaa cacagagcct gaaacagagc 120

aaaaacagag ctgtgttata aacgagaatc tgaagaagat cgctagaccg gatcatttct 180

tgcctgtgac tgtgatcttg gttcttgtgt ttttggcttt ctttggaaga tctgtagcga 240

ttatgtttac ttgtatcgct tggtacttgg ttccaacgat tcaagaacag agtggaaaca 300

gaggatcatc accgtcttac gcgatgaaga agaaagattt cgctaggaaa ttgagtattg 360

aaaacagaac atcgtttaat ccaagaactg gtccgtgatc attcncctcg caagtnngaa 420

gaaatttcta antttggncn gcncnntgaa aaaaaaccgc gttgaccgaa ccnaaaacnt 480

tttttccctt ggtcaaaaag ttttttnggg cccc 514

<210> 4574
<211> 507
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-033-Q1-E1-E2

<400> 4574

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ttggagcttt actgtagaaa gatttgattt ttcgttgacc cactccgaga ttttcggata 180

caaatcaggg ttttagggtt tttgttggaa tggaagagga ttatcaacag ccgaggttta 240

cgattggtag gcaatcatca atggcgccgg agaagattcc ggagccgtcg gttcactcag 300

aagaagangt gtttgaggat ggagaagaga tcgatggtgg tgtgagacta atgtatttgg 360

ctaaatgaan gtgacattga anggattaan ggagcttatt gaantccagg gaattgatgn 420

caaattnccg gangacattg gattnatncg ggncngncnt tacnngttgg cnggcnttgt 480

caanggattg gaaangaaag tttgttg 507

<210> 4575
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-C4

<400> 4575

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cgcagacacc aaccagcgtc gacagacata gacagtaacc gagctttgcg tacgaccttc 120

cttcccttaa aacctcaaac ccttggaaca cattcaccac gcccatcacc acacacgcgt 180

acccgacaaa atgatggtaa gacttccagt acctccggaa cttattggtc gtctttggtc 240

tgaacagcaa agccagtgtt tgcagcgccg ctgctgtgaa agtagctatc ccgaggctcc 300

gatgtaaccc ataggtcact ccaggggaat tatggccgag cacgattcca atggagaagc 360

caatggttcc tanggaggaa accgggttag ctgtattgct gcgtgggatg tagaancaag 420

ttgggtccta ntgattgcaa tttgggcgga ggtaaccaac tgttancggc tnccgccggg 480

ganggagaaa aacccc 496

<210> 4576
<211> 513

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-C5

<400> 4576

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnactcat tttctccgca gagaaaatac 120

aatccatggc ttctactttt aggctctcta ttagcttcct cactctcatc ctcttctctc 180

tgtgggtagt ggaggcacac acgtctagaa agttgatatc aatcaaggaa aaagaaggtc 240

aagatattan tcatttgctc aaagatggtg aatttgatga cccttcgttg tacatgtatt 300

tcacactcaa tgatctcaaa ctanggaacc aaattgctga tttacttcta caagaaacga 360

tcttcaaaag cttcntccca cttctcagan gacancaagc cgatctcagn ccttttcacta 420

agtcaangcc ntgacgncct tcctcgancn agntcncnat cagnanngac tcncgtcaan 480

gggaaangcn ttaggggggа cnttggggac ctt 513

<210> 4577
<211> 500
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-C6

<400> 4577

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ttttcgagat gccgtattga atcggctacg aatttcccaa ttttgaattt tgtgaatctc 120

tctctttctc tgtgtgtcgg tggctgcgat ggaggccagt gccggcttgg ttgctggatc 180

ctaccggaga aacgagctcg ttcggatccg acatgaatct gatggcgggt gcagaccaaa 240

cctttgaaga atatgaatgg ccagatatgt cagatctgtg gtgatgatgt tggactcgct 300

gaaactggag atgtctttgt cgcgtgtaat gaatgtgcct tccctgtgtg tcggccttgc 360

tatgagtacg agaggaaaga tggaactcag tgttgccctc aatgcaagac tagattcaga 420

cgacacaggg ggaatcctcc gtgttgaaag ganatgaana ataaggatga tgttgatgat 480

accganaatg ggttcaatta 500

<210> 4578
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-C7

<400> 4578

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ctggtggcgg gtttggtgtt tccgggtcgg gtaatttccc gagacctgag atgtggggag 120

gtgatcctaa tatggggttt aggccaatga tgaatgcacc aagaggaatg caaatgatgg 180

gaatgcatca tccaatgggg ataatgggta gaccaccacc atttcctttg cctttgccgt 240

tgcctgtacc gtcgaatcag aagcttagaa gtgaggaaga ggatttgaaa gatgttgagg 300

ctcttttgag taagaagtct tttaaggaga agcaacagtc taggacaggt gaggagttgc 360

ttgatctgat tcaccgtcca accgctaaag aagccgctac tgctgctaag tttaaaagca 420

aaggaggata caggttagta tactgtagta tttaactaaa gangattgcc tctcaatccg 480

ggtccanaaa 490

<210> 4579
<211> 520
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-C8

<400> 4579

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gtcttgatgt ttcttggaat ttgttttccg gtgaaatccc tgatgtgttc gacgaattgc 120

ctcagttaaa gtttttctta ggtcagacca atggattcat tggaggaata cctaaatcgt 180

tggcgaattc accgagtttg aatctgctta acttgaggaa caattcttta tcgggtcgtt 240

tgatgttgaa ttgtacggcg atgattgctt tgaactctct tgatttaggt accaatagat 300

tcaatgggag gttacctgag aatctaccgg attgcaagcg gttaaagaac gttaacctcg 360

cgaggaacac cttccatggg acaagtacca gagagtttca aagaacttcg agagcttatc 420

ctacttcctc gttaaccgaa atccaagttt gggctaatat ctccttcagc gcttgggaat 480

acttcangca ttgcaaagaa ctttacgaac tttgggtcct 520

<210> 4580
<211> 522
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-D1

<400> 4580

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ccgttacacg agatctcacc gccgtcggat ctccggagaa tgctcctgcg aaaggacgtg 180

cttcggttta cagtgaagtt caatcaagcc gtattaacaa cactcttcct ttgccttctg 240

ttctcaaagg agctttcaaa atcgtcgaan gtcccgctag ttccgccgcc gggaatccag 300

atgagatagc gaattgtttc cgggtctata tggccaagcc atcactagca ntggttccag 360

gtcaggatgc accttcgtcc ggcaccgata tngaagattg gtgttntttt ggcnggnnng 420

gtcaaggcaa ccttggcngg gnacaaattg tnaanttcng ggacctgntt ngattacctg 480

cananaacct tgcgaaaaag gtaaccacan tttacggggt tc 522

<210> 4581
<211> 508
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-D2

<400> 4581

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ggttcctagg attggcttca ggtgaatgga ggtgaattaa gaggctgcaa catcaaatat 120

tctgactccc taaaaggatt tggcanattc gcttccacct ccactcaagc ttccgatgaa 180

gttttgcttg ttgttccgct tgatctggcc attaccccta tgagagttct tcaggaccct 240

ctcctgggcc ctgagtgtca gaaaatgttc gaacaaggac aagttganga ccgctttctc 300

atgantctgt tcctcacttt ggngcgtctt cgtatcaatt cntcttggaa nccgtatcct 360

gatangcggt ctactcgatt tggcaacctc nttggatttc tgatgatnaa tcntttagcc 420

taaagggata aanntgttcn cggcaaccga gttacagaag aagnngttgc tcccngnttn 480

nccatgacca aggggganggt cctgggta 508

<210> 4582
<211> 509
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-D3

<400> 4582

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ggggtgtcga gctggcgttt cagagagtcc caggggtgac tcagaccgag gctggataca 180

cccaagggac cgtagacaat ccttcatacg gagatgtttg ttctggtacc acaggccatt 240

cggaggttgt tagggttcaa tatgatctta acgattgcac ctatgagtct ctgcttgatt 300

tgttctggtc taggcatgat cccaccactt tgaatcccca aggggaaatg acnttgggaa 360

cccaaataca gatctggaat atacttctac acacccgann caggagaaac tancccgtga 420

gtcacttgaa cgtcaccagc aacanattgg nggaagaaag tnnatgactg aaatccttgc 480

aactangaaa ttccacanag ctgaagagc 509

<210> 4583
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-D4

<400> 4583

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aacatcgtcg ggtcaggtcg aagaaaggag agaaatgagt ggtcacgatt cgaaatactt 120

ctccacgacg aagaagggag agatccctga gctcaaggaa gagcttaatt cccagtataa 180

ggataagaga aaagatgcag ttaagaaggt tattgcggcg atgactgttg gaaaggatgt 240

ttcatcactt ttcactgatg tagtcaattg tatgcaaacg gaaaatttgg agttgaagaa 300

gcttgtttac ttgtatctca taaattatgc gaaaagccag ccagatctgc taatccttgc 360

agtaaatacc tttgtaaaag gattcacang attcaaatnc cgctgaatcg tgcctttggg 420

ctgtnccggg acaatggggc tggcattcnn ggttntgaga aaaancccng gnannancca 480

aggggntccc cctccaaaaa gt 502

<210> 4584
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-D5

<400> 4584

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tggctatgtt taggattatg ttctaataag tgttcttttg ctgttttcag atgagtccta 120

cagatgaaga tgaattctct atttacaaac agagaagcac tcatatgaga aaccattctt 180

tagaagagga tttggaggct gagaagacca tttcctttca agataaggtt gatccaagtg 240

gagaagaaca aactctgatg agaaatgagt ccatctcaag aaagcaaagc gatctcgaga 300

caccggaaaa gatggaatca tttagcacat ttggcgatga aatccaatcc gtgggatcnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

nnnnnnnnnn nnnnnnnnnn tcaatgcctt cagagcaaaa ctcaactaga aggagaagaa 480

n 481

<210> 4585
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-D6

<400> 4585

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ccttgttctc tatttttttt gcacaagcaa catttagctt ctgcaaactc cagttcatct 120

ctcaaccctc atatcgccgt gttttctcgc tctagtaccg cgagctcgga cgaaccagga 180

agcaatccgt taatctagaa gcggtgttga gaagatgacg attacatcaa atatctctgt 240

acagaacgat aacctcgttg ttcaagggaa gactatcctt accaaaatcc ctgacaacat 300

tatcctaact ccggttaccg gtaatggatt cgtttccggt tcatttatag gcgcgacgtt 360

tgaacaaagc aagagtcttc atgtgttccc catcggtgta ttggagggtc ttcggttcat 420

gtgctgtttc cggttaagct atggtggatg actcaganat ggaaactgtg gaaagaaatc 480

ccttggng 488

<210> 4586
<211> 504
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-D8

<400> 4586

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tcaaggaatt gaatggccag tgaatcagat gcatcgagca ttgctactct ttcctgtgct 120

cgctgcgaga agcctgcaca tcttcagtgt ccgaaatgca tagacttaaa gcttcctcgt 180

gaacaagcct ctttctgcac tcaagaatgt ttcaaggcag cttggagctc gcacaaatca 240

gtacatgtga aagctcagct gtcttcaatc ggtgatcaga actctgatct tatttctcaa 300

ggctggctct attgcgtcaa gaaaggccag gctagaacac ctaagcttcc acactttgat 360

tggactgggc ctctaaagca atatcccata tctaccaagc gtgttgtgcc tgctgagatt 420

gngaaacctg actggggcaa ntggatggga ncccaaaant tgaaaccgaa nagtgnttta 480

anaacaggtt gtttaggnat aaaa 504

<210> 4587
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-C1

<400> 4587

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cattgccact gtttcggtgg ttatagctca agtccctccg gagaaacaat tcagagtcgt 120

caacgaagga gaattcggtg aatacatcac tgagtacgac gcaagttaca gattcatcga 180

atcatcaaac cagagcttct tcacatcacc attccagctc ttgttttaca acactacccc 240

tagcgcctac atcttagctc tccgagtcgg actcaggcgt gacgagtcta ccatgcgttg 300

gatatgggac gcgaatcgca acaaccccgt cggagaaaac gctacactct cactcgggcg 360

ttaacggcaa cctcgtcctc ggctgaagct gacggacgaa tcaaatggca gactaacaca 420

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caaaaacggg aaantcgta 499

<210> 4588
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-A5

<400> 4588

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ttgcctcttc ctctcttgtt tcactcttta gggtacacac aaattcactc ttttttcttc 120

tttgtttggg aggggaaaag ttacagtttt ttcctctgtt ttggatcaaa atttcgtttt 180

tttggttgtg ttaagaaagc aacagagaga gagagaaaga ttgaaacttt ggatgtgaat 240

ttagggtttt gtgaattggg gaaaaagcaa tccagagatg gctcaacaga gacaatttca 300

gatggaaggt ggtaataata atacaacaga taccaagttg acgaaaatct ttgttggagg 360

attagcttgg ggagactcaa gagagatacn at 392

<210> 4589
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-A8

<400> 4589

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnntaa ncgatcgagt 120

cttcctcgac ttctccctct gccccaccta cttccgctca gatccctccg cgacactctc 180

ctccaccaca ccttgctccg attcaactcc tctcggccgc gtcgttctcg gattatacgg 240

ccgtcacgtt cccataaccg tctcaacttt caaacgtatg tgtacttcat cttccacatc 300

ttacaaaaac acacctgtcc acaaaatctt ccctggtcag tattttctcg ccggaagaca 360

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<210> 4590
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-A9

<400> 4590

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gctaatcagc tacctcaatt cgctccttct tctgttcctg cttcatcaac tgttgagaag 180

aagttggaga gtttgcctgc tatggttggt ggtgtttggt cagatgatag aagtttacag 240

cttgaagcga ctactcagtt ccggaaattg ctttctattg agcgtagtcc tccgattgaa 300

gaagtgattg atgctggtgt tgtgcctcgg tttgtggaat ttctcactag agaagattat 360

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gaatacaaaa ggtgggtcat tga 443

<210> 4591
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-B12

<400> 4591

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gtaacaggtc tgtagggaag actcagatga acgagcaatc ttccagaagc cattttgttt 180

tcacgctaag aatctctggt gttaacgaga gcactgagca acaagtacaa ggtgtcttga 240

acctgattga tcttgcgggg agtgagcgtt tatcgaagag tggatcaacc ggagatagac 300

ttanagaaac tcaagcantc aacaaaagtt tgtcgtcgct angcgatgtc atattcgcct 360

tagcaaaaga aaggaaagat catgtaccaa ttccgaaact caaaagctca catatcttct 420

caagccntgc t 431

<210> 4592
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-B3

<400> 4592

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cgtcttcttg gattcgtggt tcttgtgttg gaagaggttg ttttggtaca gtaagcaaag 120

ctttgagtaa aatcgacggt ggacttttcg ccgtgaagtc gatagatctc gccacgtgtc 180

ttccttctca agcagagtcg ttagagaacg aaatcgttat tctacggtcg atgaagtctc 240

atccaaacat agtgaggttt ctcggtgatg atgtgtctaa agaaggaacg gcgtcgtttc 300

gaaatcttca tttagaagta ttcaccggaa ngtgacgttg ctaacggtgg aatcgttaac 360

gaaacgcttc tcaagcgtta cgtgttggtg tcttgtcncc ggctttgagt ca 412

<210> 4593
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-032-Q1-E1-C1

<400> 4593

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tggaaataca gatcctaatg accattactg ttggatgcga cctgaggata tggactataa 180

aaggcccgtg actacttgta atggtggatg ttcggatctc gctgcagaga tggcagctgc 240

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tggtgctaag gtggtgtatc agtttggaag gacgaagaga aggagatata gtgcaagcac 360

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ggggg 425

<210> 4594
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-C10

<400> 4594

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tggccgaaac ctcgaagcaa gtcaacggcg acgatgccca ggatcttcac tcgcttcttt 120

cttctccggc gagggatttc ctcgttcgta atgacggcga acaggtgaaa gttgacagct 180

tgttagggaa gaagattgga ttgtattttt cagctgcttg gtgtggaccg tgtcagcggt 240

ttactccaca gctggtggaa gtctacaacg agctctcttc gaaagttggt tttgagattg 300

tgtttgtgtc aggtgatgaa ggatgaaaga atcatttgga gattatttca gaaaagatgc 360

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gagtttgttt taang 435

<210> 4595
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-C12

<400> 4595

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gacgatgacg tcatttcctt agacggcatg gatccgctcc gtacagaaac tgaaaccgat 300

gttaacggtc ggatcaggct caggatccga cggtccgtat catccgtacc tgattctgtt 360

atgtcctcct ccttgtgctt aaccctaaga gcctctaatc tttctaacgc cgaagatttt 420

cnccgtc 427

<210> 4596
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-C2

<400> 4596

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ggaggaacag aaagtatagt gttggctgtg aagtcatctc gtgactatat gaagtacaag 120

aagggaatca cacggccaga aatgattata cctgagtcgg gtcattcggc ttatgataag 180

gcggcccagt attttaaaat caagttgtgg cgagttccag ttgacaaaga cttccgagct 240

gatgtgaagg caacaaggcg gcatattaac agaaacacca tcatgattgt tggatcagca 300

ccaggattcc ctcatggcat cattgatcct atcgaggagc ttggtcaact ggctcttaac 360

tatggaatat gctttcatgt tgacctttgc cttggnnggt ttgtgttacc cttcccccct 420

aaan 424

<210> 4597
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-C3

<400> 4597

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cttctcttca tcgtcgtcgt cggcgtcaac gctcagaatc ggagacctaa gaatgttcag 120

gtggctgtta aggctaagtg gcagggtact cctcttctcc ttgaggctgg tgagttgatt 180

tccaaagaat cgaagcagtt gttctgggag tttactgatg cttggcttgg ttccgatgga 240

gatgattccg attgtaaatc agctagagat tgtcttctta agatatctaa acaggcttcg 300

actctgttag ctcaaccagt ggcttctctc ttccatttct cacttactct gaaatttgct 360

tcgcctaagg cttgtgctta acgtcaattg gctgatgagt ctcaancttc cttcccccaa 420

gg 422

<210> 4598
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-C5

<400> 4598

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tctctgacgg tgaccgccgg tgatcatttt ttgtgaactt cacttttggt gtataaagca 120

tagttcgttg ggaacttttt tttacagctt tggagtaact acctttcatg gtttttggtt 180

ccaacaatgg ggtcaaaatc atttggaaat ctattagact tggcctctgg ggatcttttg 240

ngacattcct cagactccga gatatcttcc aagagtgatg actgttcctg gcattatctc 300

tgacgttgat ggatatggaa attagtgatg gcgaatcana tgtcanttca ntaccttggc 360

cgtgagcggg gaaatcattg tggccaattt tcntcctttg gaatgggtaa aaaggattca 420

cnaact 426

<210> 4599
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-C6

<400> 4599

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cccaactgga attgacccaa caccagaaca gtgggtaaaa attgctgatg tcattcacga 120

aaagaaccat atcccatttt tcgatgttgc ataccagggc tttgctactg gaagccttga 180

tgaagatgca gcatctgtga gattatttgc tgagcgggga atggagtttt ttgttgcnca 240

ntcatatagt aaaaatttan gtttgtatgc ataaagaatt ggggcaatca atgtcgtgtg 300

ctcctcagct gatgctgcta caaaggtcan agagncagtt gaaaangaat gctcggccta 360

ngtagctcca atccaacant tcaagggggc gaagaatcnt tggccaaant actggggtga 420

tgttaac 427

<210> 4600
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-C7

<400> 4600

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gccggagtaa tctctttgcg tgatcttacc ggctgcttaa ttcgtcttcg cctgattcgt 180

tggtttcaaa attcgtctct ctctttcaat cggaggttaa ttgtttttct gtttgggggt 240

caaagcgaag atggtgaacg ctatggtgga gagagcgacn agcgagatgc tgatcgggcc 300

tgattgggct atgaacctcg agatctgtga tatgctcaat agcgattcag cgcaagcaan 360

agatgtttgt gaaaggcatt aaanaacggg attggtaaca aggaatccaa aagcccaagc 420

ttcttg 426

<210> 4601
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-C9

<400> 4601

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cacaatctct cttaaatgcc aaaggtcctc tttttcgtct tcttccactc tctctatact 120

tctctcacaa atctgggcat gttttgaaat ccacattctt cattcactga gtttccttta 180

cctcttaaag tttcaatctt tagattgaga gagaaatttg aagtaattta aggtaacaag 240

aagagaacaa ttttgttctg ttatggtggg ggcgatggca aacaatggaa gaatccggtc 300

agcttttccg gtgactaatg ggtcaaaaga tctgacgccg aacagtgctc cggcgagtac 360

aancggattt gaataaggnc cctgttgagt tcacaaggaa gaaagacgtt gaaactcctc 420

cntaatgaac gaatcaaag 439

<210> 4602
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-A4

<400> 4602

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ctgtgatcca tggatctccg atcgggaaac cgtatccaag ctccgtggct agtctgcgct 120

ctttggactt tgaaaactta gcgaactgaa acatctaagt agctaaagga agggaaatca 180

accgagaccc cgttagtagc ggcgagcgag agcggatttg ggattttaag aaaaagaaag 240

acgaagcttc gttccaaagt gttcacttct ttttcgccaa ggtttcattc gatttaatgt 300

ggattgggat gatggaaaaa ccaacaagcc cctcctcttc antccaagtt acttcctacc 360

ctngactgga aagatcccta aaagggcgct gttaaaccgg tnaattgtga aaaaaggttg 420

gnaaaa 426

<210> 4603
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-F12

<400> 4603

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnntgg aagagtgtgg 180

cccaacatag agatatagag ctgttatcgt ctgtctttca tggcggagca gaggtgatcg 240

tttcactatt caatttcact cgtcgatcat taccaacctc tgcgggcaaa gatggaattc 300

gagaagatca aggtgatcaa tcccgttgtt gaaatgggtg gagacgaaat gactccaagt 360

tatctggaaa ttcatcaang acaagnttaa tttccctttc ctgggagctg gntatcaaat 420

actttgatct tggnctgcct aaccgnnant tcactgatga naaggttac 469

<210> 4604
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-F5

<400> 4604

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caagtattaa aaagcggctt ggatgctaac tgcaaactaa tgggggatct tgtcaagaga 120

cagttttgan tgttgatgta catcaaagca atcatgaaca gacacaggct tctctcagcg 180

gcaacagatg aatgcaataa aaaacttggt caagcttgct cttcttcttt atctccagtc 240

cataactttc tgaatgtcca gccagaacac cggaaaactc ctttcataag gtcacaatct 300

ccagattcac ctggtcagct atggccaaaa nattagttct cagagcacct tctctcggtc 360

tcccaccttt gcacaaacct cnacttgtca catcttcaac tcctgagatc anaaacatcn 420

aggaacagtc tcctttctcc ctgatnctcc tctaa 455

<210> 4605
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-F6

<400> 4605

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ntatctgcca ctatgtctgg tgtgacttgc tgtctgaggt tccctggtca actcaactct 180

gacctccgta agcttgctgt gaatctcatc ncattccctc gtcttcactt cntcatggtt 240

ggttttgctc ctctcacctc aagaggttca cagcagtacc ncnccctcac aagtncctga 300

gctcacccan catatgtgng acccaggnac atgatgtgtg ccgnatacca angcacgggc 360

gctaactcaa acctctgcna tgttccgttg naagatntcc acaaaggaat tnacatcata 420

tgctnaatgt tcaaanaaaa ntccnccaac ttgggggggtg ggtc 464

<210> 4606
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-F7

<400> 4606

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tggctatggc cggagaatct tccggcaaaa nnattggaga ctgtgacggt aaagtcncgg 120

ggaacanaca gcgaaaggtg ggtcttattt acnacganac gatgtgcaaa cacgacacac 180

ctgacggcga ggatcaccct gagtgtcccg accgcatcag agttatctgg gagaagcttc 240

agctcgccgg agtttctcaa agatgtgtgg ttcttggtag tancacagca gaagataagc 300

atctccaatt ggttcacaca aaaggaccat gttaattaat ttaagagtat tagcacatac 360

agagaagatt accggagaaa caaggattgc ttcacagttg aattcgatta atctgaangg 420

agggttatcc tgaagccgca taccttgcan ctggttctgt tgtaaa 466

<210> 4607
<211> 520
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-G1

<400> 4607

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tccgggaaga gctcaggacg ccaccggtaa gtctggtggc tctcttcgga tacgcggagc 120

tacacgcgtc cattactaag tatctccact cccagcagcc tcccatcaac gctctggcct 180

tccccgactt ctctcaaatc tctctcctcc ttgctcatga tgatcagatc agccgaacct 240

cctccttcag agatcctctc agcgtctccg attctgcttc tcccattcct tccagatgcg 300

gcggtatttt gaaacgggac tggttgctta agcatcgcac caaggtccct gcacttgtcg 360

ccgccttctt tccctcacat cacatcttcg gcgattcaac tcaatggcta caggtctgct 420

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gtggtccaat cntctcccca cgaaggacat ttancgacga 520

<210> 4608
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-G6

<400> 4608

gaacaaaact aatttaccat tgagggtttt cttcttcctt cntcttcatc ctctttgctg 60

ctatgattga gctccatgga tctgcaatca tagttcttcg atttaggatt cgtttagatc 120

gcggtttttg agctcggttg gtgaagacat atgcttgaaa acagaagtct tgtactgaag 180

catggctctt cggctaccag cttctaaagc agctgangtt gcgattgggt ctattggatg 240

tggttangat ctagctattg ctttacggnt gaagtattgc ncaggangtt cnaaagattc 300

tanattacnt gacactaaca gaaggtgatg ataattgtga gattgtttta cctggtggnc 360

atctccattc ctaatgtttc cncgtctanc ngttgcgana anggggacct taggnggttt 420

aagtccgtnt tcctccttca ac 442

<210> 4609
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-H1

<400> 4609

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gccttgtaca tatgggaaga ttgaaactga agagggcagt gttagtccca gaacagtgcc 180

aaggatacga aacattgtgc ttccaggaaa tgttagccct gttggtcatc agtctaccca 240

tgatatcttt tctggtcagt tagcagcgtt ggtagctact acaattganc atgtcatagc 300

tccctgatgt caggtttgan acggttgatc tagcaactag ggtgctggta cctatcattg 360

tgctccaaaa ccacaatcga tntaatatca tggaaagang acaaaactac agcataanta 420

ttgaaagaga tanaatccng angtaaagaa aatgattcat catggccaa 469

<210> 4610
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-H12

<400> 4610

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caaatcccag ctttcttcca agtgatcctt cactctctat actgcgattt accgttcttc 120

tgactcttgt tgcgaattcg gatcggctga cgcagctccg attgcacaac aatggcttct 180

cgtatcatca atcattccaa aaagttgaaa catgtttccg ctttactgcg gcgtgaccat 240

gctgtggcag tccgctgttt ctccaacagt accaaccctc tctcgttggn agagaagata 300

tcttcaangg cccgcctgaa ttaatcccnc ngttaagaag aattcaaaat gtggnactgg 360

naatgttaca atgcntaant ggggattcaa aaacgggcac aaaactnagc agcccaatgg 420

gaggggcaaa actattttta gantttaagc cccagatggg atnagtggag gggt 474

<210> 4611
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-A1

<400> 4611

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gccaccgtgt tcgatctccg tcccggcgtc ggcatcggac ctttctctat cggaatgccg 120

atttgtgaag catttgctca aatagagcag cagcctaaca tatatgatgt tgttcatgtt 180

aaatactacg acgaggatcc tttgaaactg gatgttgtta ttagctttcc agatcatggg 240

tttcatcttc gatttgatcc ctgggtctca gaggttacgg cttgttgaaa tatttgatgt 300

caagcggctt cagatgcgct acgccacttc tatgattggg ggtccatcaa ctctggcaac 360

ctttgtggct gtttaagcac nttttggacc aaacnttccc tggggaat 408

<210> 4612
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-A10

<400> 4612

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cagaagaagc agaagaacca aaatgaaaca tctgagaagg aaactaaaaa attcagcacc 180

gtttacgaaa agtttaatga tactattaaa gaactagaca gggtttctgg aacatgtccc 240

atacgacctg ccattccatt cacgccccca aaggaaaagg tggaaccgat atatcacaat 300

gagtgcaatt tcgatgataa agctcatctg ggaagtatct gacagcgccc cttttgtaca 360

aaggattttg atacttccca tccaagggca tgaaatcaag acagcaattg tgggatcatt 420

tcctcntcca tgttggtaaa 440

<210> 4613
<211> 525
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-A11

<400> 4613

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tcttatttca attcaacgta tactttcctt aaattaggaa tttggttttc gagaaaattg 120

agatccgaat aactatggtg agactcaaga cgagtctctg ggttcttctc cttgccctcg 180

tttcaattca gttaaatggt tcgtttggat ctgaatcaag taaagtagct tatgtcacac 240

ttttgtatgg agatgagttc ttattangag ttagggtatt gggtaaatcg attcgtgaca 300

ctggatccac taaggatatg gtcgctttgg tttctgatgg tgtctcagac tactctaaga 360

aagtttactc caaggctgat gggatgggaa agttagaaga aagaattaag ntttactggg 420

caaaatccca aaatcaaagn ttcaatcccg aactaagggt tcccnggggg gtggttttaa 480

ataccaaaag gcctttaaag nattcctttt aaccaatgga accng 525

<210> 4614
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-A12

<400> 4614

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cttcttcctg aagatttgat ttcattttcc tctctttcag atccctattc tcatggcttc 120

tggatcttac tggtgctata gttgtagccg attcgtttgg gtttccgatt caatctcttg 180

ccctgattgc gacggtggtt tcctcgaact catccaagag cctctcgatt tcacaccttc 240

cgattnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nntccgcttc tatgcacgcc gataacagtc ccactcctac 360

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ttct 424

<210> 4615
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-A3

<400> 4615

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tcagatcaag acgacgacgt tttaagcaac aagatgcagt taggtcagtt tatctacgtt 120

gatcggcttg atccagggac acctgttccg atcatcaaag gtgctagacc gattcccgga 180

cgacatcctt tacttggaac tcctgagcca ttgatgagta caagaggaaa gattgagagt 240

tcgagaccta gaagaggttc ttggggtcaa aacggtgacg tttcgtctcc gtttgtgtta 300

aagcctgcac ctttggattt tgatcagtgt acgccggcga aacatangct tggtacgggg 360

agatttatgg cggcgtctcc gaatgttatg actagaggga ggtcacctgg gtggngttaa 420

atgttcctaa ggtgganggg cttttgtcca aaaatggggg ggaatn 466

<210> 4616
<211> 519
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-F11

<400> 4616

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnaac 120

aagagaagag aagaaccaag ttttcttcga aaggattgaa ctttgtttct ttctcttcag 180

ctacaacaac caaaaaatga tcaagctttg cttcatgact tctcatggtt attcaatccc 240

tggccttggt cttcctcaag acctctgcaa caccgaaatc atcaagaata gccggtctca 300

tctggtgaat cccggagcaa gacaagagat catacctgca agctccttca atctgaatac 360

agaactcttg gaaccatgga aaccggtttc ttcatttagc caattcgtgg agattgattc 420

agccatgatg aaaacctctg ctcatgggat gttcatgaag aangnaacaa gaatctctga 480

atttgagcct tgggaatcgc tgaaaagttt gcaagacaa 519

<210> 4617
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-B2

<400> 4617

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ttagtagaga gctcgttttc ttgatcttac agtttctcga tgaagagaag tttaaagaga 120

ctgttcacaa gcttgaacaa gaatctgggt ttttcttcaa tatgaagtat tttgaggatg 180

aggttcacaa tggaaattgg gatgaggttg agaagtatct ctctggtttc actaaagtag 240

atgataatag atactctatg aagatattct tcgagataag aaagcagaag tatctcgagg 300

ctttggataa gcatgatcgt cccaagggct gttggatata ccaatgaagg gatttgaaag 360

tgtttcaaat tttaatgaag gagcctttca agggaaataa cacaactcct tgacattggg 420

ngaacttccg ggaaaatgaa caattatcca agtttgggga caccaagtct gcaanaacga 480

tt 482

<210> 4618
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-B6

<400> 4618

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tctccttttct tcttctctct tcattcgtct cctctgttga gtggctcgat atcgattcct 120

cagatctcaa agctcttcag gtcatcgaaa cagagctcgg agtcaacagt caacgttctt 180

cggccagtga tgtcaaccct tgcggtcgcc gaggagtttt ctgcgagaga cggcacnctg 240

ccaccaccgg agaatacgtt ctccgtgtca cnaggctcgt ctaccgatnn aggagcttga 300

cggggactat cnctccggtc atcggaatgt tttccgganc tcaaagggaa cttaacttgg 360

tcnaataaac aatttggcaa acgntggttc ccgggtggga taaccttaaa nctgttaagc 420

aaacttnaaa gnttcttgga tnntccggaa aaataaaatt ttcccggtca agaattccgg 480

ggaa 484

<210> 4619
<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-B7

<400> 4619

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aaagacatgt ctcaagccga tttcggtcgt ctcgaactcg agctcgccga ngttgagatg 180

cctggactca tggcttgtcg taccgaattc ggaccttctc agccattcaa aggcgctaga 240

atcaccggat ctcttcacat gaccatccaa accgccgtac tcatcgaaac cctaactgct 300

ctcggtgctg aagtcagatg gtgttcctgc aacatctttt ccactcanga cnagnccgcc 360

gcagccatcg ctcgngacnc cgncgctgtt ttcgcctgga anggtgagac ncttcaggag 420

tactggtggn gtaccaancg ttgcncnaaa ttggggtcca nggggnggtc ctgatcggat 480

ggttgatnac gg 492

<210> 4620
<211> 512
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-C1

<400> 4620

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ttactcaact ctggccgctc cggtccttcg attccagctc caatcagtaa ttctctctcc 120

aaagctcaaa agacaaagaa actcaataat gtctatgaga agctctcttg cgaaggtttc 180

gttgatgatc agattgaact cgctctctcc tctcttagag atggagctac gtttgaggct 240

gcacttgatt ggctttgttt gaatttgccg agtcatgagt tgcctgtgaa gttttctact 300

ggagcttctc gttttccttc cacaggaggt tctgtgggtg tgatatcgac ctcacgggac 360

gattggaatg attcaactga cccttaagtc agggtaaagg aaaaggaact tgaanttttg 420

gtnctgttaa aggaaaacaa gannaagaan ataccctaan tccgaaaaat naacccaagc 480

tgaattgatc cgnaagtata tgaataaaca ag 512

<210> 4621
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-C12

<400> 4621

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tcngaaacat tcttcgtggt gaancanaat ggggttgagt ttcgccaagc tgtttagcag 120

gctttttgcc aagaaggaga tgcgaattct gatggttggt cttgatgctg ctggtaagac 180

cacagtcttg tacaagctca agctcggaga gattgtcacc accatcccta ctattggttt 240

caatgtggaa actgtggaat acangaacat tantttcacc gtgtgggatg tcnggggggtc 300

angacaagat tccgtccctt gtggngacac taattcaaga cactcaangg tccaaaccctt 360

ggttgttgat aacaatgaca gagacagagt tgttganggt cnanaagaac tccaanagga 420

tggctgnatn gnggannaaa ctgccttgat gcngtgttgc cntgtgtttg gcaaca 476

<210> 4622
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-C4

<400> 4622

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ttctctttct gcaatggcga gattagtgcg tgtggctaga tcctcctccc tctttggctt 120

tggtaaccgt ttctactcta cttcagccga agctagccac gcgtcgtcgc cttcgccgtt 180

tcttcacggc ggcggagcta gcagggttgc tccgaaagat agaaatgttc agtgggtgtt 240

tttgggatgt cctggtgttg gaaaaggaac ttacgctagt agactatcaa cccttctcgg 300

cgttcctcac atcgccaccg ggcgatctcg tccgtgaaga gcttgcatct ccgggactcc 360

cctctaaaaa ccaaccggna attgtnaatc aaggaaaatt ggnttcctga atgaaatnaa 420

tgtagactta atgtncaaaa aacttnaagn tggtgaanct aaaagngaat caagggttaa 480

ccttgaaggg nttcctcgta acaag 505

<210> 4623
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-031-Q1-E1-C8

<400> 4623

gaaaagcttc aatcagtgag ctgcgttttt tattctctgc ttcatccaga tctacatttc 60

tctgtttcag cctctattgc tctgtttaac aagttctcaa cggccggaat cgtcgccggg 120

attctcgcca ccggagttat tgtgaaacgg tgaaaatggg tttttgattt tactggttac 180

ttcattgttc agtgcaaagt ttggattgat ttcactatgg aggaagtagc agctaaggtt 240

gaggaagaaa ctgtggaaac caatgtagat gcagtgaaag aggacaatgc aactatagct 300

aatgaaagca gaagcccaga gagtgtttct gcagtgtctg tggtgtcaaa tcgagctgct 360

tctactaaaa agaaaccagt tattaattcg aatttaataa agccaactgc gtcctcctca 420

atacgggtct cgggtactac gcctgtggac tatcaaggag aaata 465

<210> 4624
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-D11

<400> 4624

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ccttgatcgg ggttatgcaa caaaggatgc taatacacgg ttttctccaa ccaacctggg 120

tgaggcgctt gtgatgggat angatgacat ggggtatgaa ctttggaaac caaatctcag 180

agcccttatg gaacatgata tgaatgaagt tngcgttggc aggaagacca aagctgaagt 240

tcttgaaaca tgtttgcagc aaatgaaanc ttgtttctta natgcaagag tananaaatc 300

anagctccta naancactgn cantttttctt tgaaagatct aanaacactg atnanagtga 360

aagtcanaca gctggtnaat ttgtcccgac gattcaatcn ccggaaagga tccacntatg 420

gcacncagga aaaacccggg atggcaattt cacgggttgg gtgcatgaaa t 471

<210> 4625
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-D12

<400> 4625

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tccctgttca atgttgttca gacagggacg gtaaaanaag tatccacatg tgatgaaagt 120

ggcttcgttt tacagcatag tcgggacgat ccaatgtcta ctattctcgt tanttatgga 180

aagagacctt agtgcatgga agatccaacc taacttcgat cttatcncat tatcgccaac 240

gggnaacant cggangtgta ntacgancan gtgtacacgt aaagtgcacc caagatgana 300

agnccttaat acctgccatt ggtcaaaccc tttgggcatc ctttgggcaa cantccttgg 360

taccaacntc ctcctcaaca atcctcacna anggcaatgt gttaggaaca accatacctg 420

gttttgggat atttcaaaan tgtccctggg gacaattgga nggaaaacca aagaaa 476

<210> 4626
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-D3

<400> 4626

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catctcgata cttggaagca ttctttggtg aggctgattc attctcatct gtgaaagtct 120

ttggcttttg aagcaatact atggaaggaa ttcagcatcc tatacctcgc actgtcgaag 180

aggtttttag cgactttcgt ggtcgtagag ctggtctcat caaggctctc tctactgatg 240

tacagaagtt ttaccatcag tgtgaccctg agaaggaaaa cttgtgtctt tatggacttc 300

caaatgagac atgggaggtt aatcttcccg ttgaggaggt ccctcctgag cttcctgaac 360

caacgttang catcaatttc gcaagggacg gaatgcaaag aaaaagactg ggatttcttt 420

ggttgcantt cacaatgatt catggcttan ctctgttgca ttttact 467

<210> 4627
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-D4

<400> 4627

agatgcagag tcatcatcat cttccggttc atctgttggt ccatctgcct cagacacatt 60

anctgcaang ctactaggag ccgctgataa atacaagttg cctagattaa gtctaangtg 120

cgagtcagtg ctctgcaagg atatatcagt agattccgtt gcaaatattt tggcgcttgc 180

tgaccgttac aatgcttccg ccttganatc cgtttgtctg aaattcgcag cagaaaatct 240

catcgctgtt atgaggtcag atgggtttga ttatctaagg gaacactgcc cgtcacttca 300

gtctgagctt ctganaacag ttgcgggttg cgaanaggat taagcggagg aggagggaag 360

acgaagaacg tatgggggcc aatttctcaa aacggtggan ctgaaaacaa aacngganga 420

caancacaaa ccttggggga agaatatcaa tgggg 455

<210> 4628
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-D5

<400> 4628

cgntctaccg gacgacattc ccgggtngac ccacgcgtcc gacaaaagtc nctttgttca 60

aacactcgtt tacgcgtagc cganataant tttccaaaaa cccatatccg aaaaagtcga 120

tatatttatt gaatttttgn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnctaa gtctctctgt tgtcttcctc tttgtcttct 240

atctcgctgc ggtgacttca gatctagagt ctgaccggng agctttacnc gctgttcgta 300

acagtgnccg tggccgtcct ttgctatggn acatgagtgc ttcgtctcct tgtaattggc 360

acggagtcca ctgcgatgcg ggtcgggtca cggctctccg attaccggat ctggtttatt 420

cggttcntta ccantcggtg gtattggtaa tctaatccag cttangactc tttctct 477

<210> 4629
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-E1

<400> 4629

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aatgtctcaa gattctgcaa ctactactcc gccgccacct ttaacctccg acgtttcaat 120

gccttccggt gaagaagatg agccaaagca tgtaacatcg gaagaagagg caccggtgac 180

ttcggagaca aatctgaagc tacctttgat gccggagcta gaggagtcaa atcatacggc 240

ggaggttgtt tcagagaagg tgacgccgga gacgatgact ttggagtcag aaggtctcaa 300

ccacgcggcg gagggattca gagcaagaca catgaagtga cgccgggaga caagagactg 360

cgaaactaga aggttctcaa accacacggg ngggganggat tcaagagcaa gacacatgaa 420

gttgacgccg gganaaaaga nactggtgaa atcaagaagt ttcccaaacc aacgttggcg 480

ggagggatt 489

<210> 4630
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-B10

<400> 4630

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atctcgatca tctggatcca agaaattact acgattgcta taatgtcgat gtctcggctc 120

ggattgttgt tgttcgtcgc tatattgctc gtcttgcttc agtcttccac ttgtctgatt 180

agttctccaa gttctatcat caatccttct aaagtcaaac aggtttcgtc gaagcccagg 240

gcatttgtgt atgaaggttt tttgacggac ttggaatgtg atcatctaat ctctcttgcg 300

aaagagaatc tgcagagatc tgcggttgct gataacgata atggcganaa gtcaaagtca 360

gtgatgttcg taccaactcc ggcactttta tctccaaaag gaaaggattc tantgtttcc 420

ggtatcgaag gacaagctct caacatggac atttctccca aaagaaaacg 470

<210> 4631
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-G10

<400> 4631

ggagaaattc caggagtgag ttttgacaat cggagagaaa tggggtcgac agaaaaagag 60

cagacgacgc aacatcaccc gcctcacatc agcagtctcg tcgtacgtcn ctccggaagc 120

aacgacagag aagacggccg caacgccgcc ggagactatg agcccggaga agtctctcgt 180

gaccggcctt cgtttaatcg ctcggatcgg tataagggtg acaatggtgg acatagaact 240

cgggcaagtt ctagctcacc aggccgtcgt ggatatgaag atcacaagca tggctctgat 300

cttaatcatt cangcgttcc acctcgtggc cgtgagttaa agcacanaan ggaaacactg 360

ggagacacaa gagactaatc ccaacccttt agctagaagg tggagctggt gctccgtccc 420

ttatncgaag aaggttaaat 440

<210> 4632
<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-G11

<400> 4632

actgtctctg gcnccacggt ccggaaancc cgggtcgacc caagcntncg ttnnancccn 60

acnggttcaa ncngannaac cacagnattg gtacaaagac gagaagtata gtactaaagt 120

gaaggacgca gacggtcatc cttgttttgc tcttgtaaac aaagctactg gtgaagcaat 180

gaagcattct gtgggagcta ctcatcccgt gcatctgatt cgatatgtgc ctgataagct 240

tgacgagtca gtactatgga cagagagcaa ggattttggc gatggatatc gcacaataag 300

aatggtaaac aatacgaggc taaacgtgga tgcatatcat ggtgacagca aatctggtgg 360

tgtncgttat ggnacgaata acctcctncn ggaatggaaa naaaggnaaa aacaactccg 420

gaaaattctt cccttcctga aaaattggcg tcctggaatt ggtaaaaagt tccctttgtg 480

tgtgctgtta ng 492

<210> 4633
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-G12

<400> 4633

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gaanangttg tggaatcaga aggagaaaga gagtttgaac attgagaggt actcagattc 120

gttgaagccg aagatgaagt ctaataagaa tggatctttc tttgattttc ttgttcttag 180

acctgataac ttccctaaag aacttcttgg agatactcga agagaacaac ggcctgtgaa 240

gagagctaaa tggagtcaag aagctgattt gcagaaattg gatgtgtttg agaagcttga 300

agctaagttt aaggttgaag gcaaggaaga gaaagaagaa ggggaagatg atgaagaagt 360

tgtggaatca gannnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng 480

cc 482

<210> 4634
<211> 510
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-G2

<400> 4634

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aaaaannnnc attngggaaa cctttgaaat gtcnacngga ttanatatgt ctctcgacga 120

catgatcgcc aagaaccgta agtctcgtgg tggagccggc cccgctcgtg gaaccggatc 180

cggatccgga ccgggtccga ctcgccgcaa caaccctaat cggaaatcaa cccgatctgc 240

tccataccaa tcagccaagg cgccggagtc cacctggggt cacgacatgt tctccgatag 300

atctgaagat caccgatcgg gacgttcctc cgccggaatc gaaactggga accaaagctc 360

tacatttcca aatttgggat tacggtgtca tgaaacgaaa gacatcaagg gaactggttt 420

gcctgaaatt ttgggaaaac tttaaacgcc taaaacaaat ttcaaatttt gganaaaaaa 480

ttgggaaaan tttaaaaggg gaaactggcc 510

<210> 4635
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-G4

<400> 4635

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gagacttttg atttattcga tgatancatc ttggtgtcgg aaggtcagat cgtgtaccaa 120

ggaccgagag acaacattct tgagttcttt gagagctttg ggttcaagtg tcctgagaga 180

aaaggaacag ctgatttcct gcaagaggtt acttccaaga aagatcaaga acagtactgg 240

gtgaacccga acagacctta tcactacatt ccggtttcag agtttgccag tagatacaag 300

agtttccatg ttgggacgaa gatgtctaac gaaacttgca gtaccgttcg ataagtctcg 360

cggccacaaa gcagctcttg gtgttcgata agttctctgt cccaaangag ggaacntccc 420

aaagaact 428

<210> 4636
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-G6

<400> 4636

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cagagactaa aaaggctgtt caaacagtaa taattcttgc acatgaacac taaaccagaa 120

cgataacagg aaacaaagat acagtcagta ctcagtagtt tgagggcacc tacggaaagc 180

aagtaatact acagagggta gacgttccag tgcttaatga tgaaacatca tcagtacaag 240

caaacgtgtt tttcatcata caccgtatca ctttcacaag tggctgcagt cattccgcag 300

cataagggag attgacttcg agaagcaaca tcaactttgc gcaaaaggan canggctacc 360

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gccttttcaa aaccaagg 438

<210> 4637
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-G7

<400> 4637

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ctttatccca atcgatcatc gtagcaaata tggtcgtaag ctcgctaggt acatatgcaa 180

gcacgcgtgt aattatttcc ccgtctctct gtacgtcgag gattacgaan ctttccagcc 240

taatcgtgcc tatgtctttg gttatgaacc acattcggtg ctaccgattg ganttgtngc 300

tctttgtgat ctcacanggt ttatgcctaa tcctaacatt aaagttcttg caantagtgc 360

taaattcaaa attccctttc aaaggatata nnggaaatgg ttagggncaa cggcnnnctt 420

taaggaaaaa tttaaattcc ctttgg 446

<210> 4638
<211> 516
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-H12

<400> 4638

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nanacnaccc tnctccnncc caaaacnagc gagaaggagg aagaaganga ggaagtccct 120

gagaaatttt cgancangag ggagatcatt ancattcata tcggacaagc tggtattcag 180

gtcggaaatt cttgttggga gctttattgt ctcgaacatg gtatccaacc cgatggcacc 240

atgcccagtg atagtactgt tggtgcatgt catgatgcat tcaacacatt ctttagcgag 300

acaagctcag gccaacatgt gcctccaanc tgtgtttctt gatctccgaa ccaaaccgtc 360

attgacgaac ttacgaaacc gggacttaca agacaagcnt ttccaatccc cgaagcaaac 420

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caattaacaa ccggttttgg gaaaggggaa aaattg 516

<210> 4639
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-A1

<400> 4639

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ccctttgctc tcatgttcga gaggaaaatt aggcccaaga tgacactagc aatattctgg 120

aggcttcttg ctcttggaat attagagccc ctcatggacc agaatttgta ctacatagga 180

ttgaaaaaca catcagcatc gtacacttct gcctttacca atgcacttcc cgccgtcacc 240

ttcattctcg ccctcatttt caggcttgag acggtgaact ttagaaaggt ccacagtgtt 300

gcaaaagtgg taggaacggt aataacggtt ggaggagcaa tgatcatgac tttgtacaaa 360

ggtccggcca ttgagattgt gaaggccgca cataattctt tcaacggtgg gttcgagcaa 420

caaaacccaa ccgggcaaca attgggtccc ttggaacata accaattatg gggcaantac 480

cccnacaatg gggctgcttt ct 502

<210> 4640
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-A2

<400> 4640

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caaggaacca ccagcaccag attcatcatt tacgaccacg atgctcgtcc tgttgcttct 120

catcaagtcg agttcactca gttctatccc gaagctggat gggtggaaca cgatccaatg 180

gagatactgg aaagtgtgaa agtgtgcatt gcaaaggctc tcnacaaagc cactgccgat 240

ggacacaacg tcgacggtgg cttgaaggcc attgggctta cagatcagan agagactact 300

gttgtttgga gcaaatccac tggccttcct ctccacaagg ctattgtccg ggattggatg 360

ctcgtaacaa ctccatctgc aaggagacta agagaaaang aactccccgg gaaggaaaat 420

tcccaatttt gtgggantcc ttgccgggtt gccaaa 456

<210> 4641
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-A5

<400> 4641

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agtataaaac agtcagaaga tgtcactgat gcaacaaagt caaagaactc acatgcgatc 120

tgtgagcttg ggctgtcaat aatcaatcac ttaactcaga aagagcctga tctacaaggg 180

gaaatcacac ctgtatcgct gcctccgacg ctgtacaaac cttctgaaaa agttgaagga 240

gacaagtctc aggtaggtga agaaaaattg tggctagctg atgagactgt cctgttacac 300

ttcagggctc tcaagttgga gagtcatgct gatgcatctg tgatccccca aacttcagaa 360

aatgaggtta tgattgatgg ggaaagtgat ggaaatgaaa ttcctctggg gtaaatagta 420

nagcgtttga nactcaggga accaagacta gaaagggcaa aaaggataaa tccgtccagc 480

tgaa 484

<210> 4642
<211> 494
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-A6

<400> 4642

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ttttttttt tttggagtta gaatgctatg aattccaaac cagagaagat tcaaataana 120

cagagactaa aaaggctgtt caaacagtaa taattcttgc acatgaacac taaaccagaa 180

cgataacagg aaacaaagat acagtcagta ctcagtagtt tgagggcacc tacggaaagc 240

aagtaatact acaganggta nacgttccag tgcttaatga tgaaacatca tcagtacaag 300

caancgtgtt tttcancata naccgtatca ctttcacaag tggctgcagt cattccgcag 360

catanngana ttgacntcga naancagcat caacttttgc gncaaaagga ncaagggcta 420

caaggaaaat gggggacctc cccaatggct nacgcccttt caagganaac atcctccctt 480

agnaagggag aagg 494

<210> 4643
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-B1

<400> 4643

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tatgtgatac atataaaagc cggagtttac agagagaatg tggaggttgc taagaagaaa 180

aagaatataa tgtttatggg agatggtcgg acgagaacta ttatcaccgg aagtcgaaac 240

gttgtagacg gtagcaccac tttccactcc gccaccgttg ctgctgtcgg cgagagattc 300

ttagctcgtg acatcacttt ccaaaacaag gcgggtccgt cgaagcaaca ancngtggct 360

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ggacactcct nataacgttc antcctaaac c 451

<210> 4644
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-F9

<400> 4644

gggtngaccc aagccttcgg ataacaaatc tctcttccat tttctccaca caaatttctc 60

ttcaatctcc gataatggaa ggaaccggcg ttgtggcggt gtacggtaac ggtgcgataa 120

cggaggcgaa gaaatctccc ttctccgtga aggtcggttt ggctcagatg ctccgtggtg 180

gtgttatcat ggatgtcgtc aacgccgagc aagctcgtat cgccgaggag gctggtgctt 240

gcgccgtcat ggctttggag cgtgttcctg ctgatatccg cgctcaagga ggcgtcgctc 300

gtatgagcga ttcacaaatg attaaagaaa tcaaacaagc cgttacgatt ccggtgatgg 360

ctaaaggcta ggattgggtc attttcgttt gaagctcaaa ttctttgaag caantggnat 420

ccaattacat ccgaataaga gccaangntt ttgactcctt gccgaag 467

<210> 4645
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-D11

<400> 4645

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gtgagccttg gcctattcct tanaggcttc ccactgcttg caaactgtgt ggaaatcggt 120

ctaccaatgc tgattctgtt gatcatcaca cagcaatatc ttaaacatgc attctcaagg 180

atttctatga ttcttgaaag atatgcttta cttgtttgcc tggctatcat atgggctttt 240

gctgctatcc ttactgtttc tggtgcttat aataatgttt ctaccgcaac aaaacanagt 300

tgtcgaactg atcgtgcctt tctaagtcat caagntcctg ggattagaaa tcccatatcc 360

attccagtgg gggactccga tattcaaaac gantcatggt tttggaatgt tttggtgctg 420

caaatggtcg caatctg 437

<210> 4646
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-D2

<400> 4646

agcntncggg naaacccaat ttttgggcca anttnggnna atncgcngcn ggganaacnc 60

aggtngttac agatgataaa catgcgagat aatccaacaa tgcatgtctt acaagcttca 120

aagtttctat ttttagctct tattttgatc cagttgctgt ctactcaact ctttgctcaa 180

agatctaaaa gtccatggca aacactcact ggagatgctc cccttgtcat tgctcgtggt 240

gttttctggg ttgttgccag attcaagtct cgatgcttac agttttgtat cgcagactag 300

tgttcctggt gctgttcttt ggtgtgatgt gcaactaacg aaagatgcaa ttggactttg 360

cttccctgat gtgaagatga tgaatgcttc aatatcaana gttacccaaa cggaaactct 420

acttgctaan g 431

<210> 4647
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-D4

<400> 4647

cggtcggang acccgggtcg gccnngcntc cggaaaaaaa accaancaac aactncaaan 60

nnaaggaacn agnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnna ttctgttggt tttgcaatgg tttggaggtt cgttaatggc 180

gtcatagact cgggagatta agggagaaca agtactctgc atcttctgga tttctcacta 240

tttctccttc tctagaggaa taggcgagaa attgagatta ataaaaaggg gtgtttttg 300

gttctccttc gtttgtataa agcctgccgc ttcttaaggt tctttggaaa ttctcaagtg 360

atggaggaaa atctggttta cttcgcatga gctattaacg aaattcatca tgaatgtctc 420

actgtcacac ttgtgggaan tatgcgttga atgattgtca agaaaccgat tctngttccc 480

nacttcgttt gaacc 495

<210> 4648
<211> 335
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-E1

<400> 4648

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agtaagaaaa gtacatccga atcaacggct attgcgttct ctcctcttcc ttcttgtgat 120

gtggatttgt gtgtgtgtga tgtgtcggtg agtgtgttat agaagtcact atagccatct 180

tcaaagggga gatagagcta ggagtagtat ttggtggtgt cacgtcgttt gttttttcta 240

tataattttt gtcactatgt ctttctatta tgggacatgg cataatatat catatgaata 300

atttatcact aaaaaaaaaa anaaaaaaaa aaggg 335

<210> 4649
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-E10

<400> 4649

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cgttgtgact cattccgagt taaaaaaaac gggttttcga caccatggat atgagttcaa 120

tggctggttc aatcggagtt tcggtagccg tactccgatt cctcctctgt ttcgttgcca 180

cgatccctgt ttcattcgct tgtcgaatcg tcccgagtag actcggtaaa cacttgtatg 240

ccgctgcttc aggtgntttc ctctcttacc tcnccttttgg cttcaccncc anncttcact 300

tccgtgttcc gatgacgatc ggatatnntt caatgggcga tttanagacc caaagtgtgg 360

gaaacancaa cgtttcntnc ctcggtttcg ccctaacnta attggntggt cacgtggttt 420

aata 424

<210> 4650
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-E2

<400> 4650

cggtccggaa naccgggtcn ggccnagcnt ncgggnaaag gnaattngcg gncggaccnt 60

cananctttca aggacgtttc atctgcggtc aagtggccgt ctatttccct ctcttagctt 120

aactcatctc aagggcaagc tatctctctc catcaactcg ttttcctcca agattcagtc 180

tcatgctctc cgaggagttg gtataggcga gtcagataag aaaaatcccc tgccgcgagg 240

ggccggagaa ggagtcaagg aagatgcgag gagtaagctg cttcatgtag ttttggtctc 300

tcctcagatt cctgggaata caggttgcat tgcaagaaca tgtgctgcct cagctgttgg 360

tctgcattta gtcgggccat taggttttca agtggatgac gccagagtta ancganctgg 420

tttgggataa ttggccgtta tcctacctaa nttgtcaa 458

<210> 4651
<211> 517
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-E3

<400> 4651

tgtcctctgg ntccacggtc cggaccnnca tcgcgggncc cacncncctc actaaacggc 60

ggccgccctt ttttttntt tttggnagtt agaattgcta tgaattccaa accagagaan 120

attcaaataa aacagagact aaaaaggctg ttcaaacagt aataattctt gcacatgaac 180

actaaaccag aacgataaca ggaaacaaag atacagtcag tactcagtag tttgagggca 240

cctacggaaa gcaagtaata ctacagaggg tagacgttcc agtgcttaat gatgaaacat 300

catcagtaca agcaaacgtg tttttcatca tacaccgtat cactttcaca agtggctgca 360

gtcattccgc agcataagga gattgacttc gagaagcaac atcaactttg cgcaaganga 420

ncanggctac aaggagattg gggaactccc aatngtacgc ctttcaggaa aatcncctta 480

naaggnnaag gcttttgcaa ggcaagggnt tcttggg 517

<210> 4652
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-E4

<400> 4652

accgggtccg gatgacccgg gtcggnccan gcctncgnng naaaccttgg gcggctnctt 60

gcggntncna gcccaaaanc acggttgagc attgtgaaga gaaaggttac tccgtgataa 120

acgtgagctg cgaggatcga ccaaagctca tgtttgacat tgtatgcacg cttacggata 180

tgcaatacat tgtgtttcac gccacgattt catcaagcgg ctctcatgct tctcaggagt 240

atttcatcag acaaagacgg ttgcactctt gacacagaag gagagaaaga gagagttgtc 300

aaatgtctgg aagctgcaat ccatagacga gtcagcgagg gttggagttt ggagctctgc 360

gcaaaggaca gagttggatt actgtcggaa gtgacaagga ttctgagaga gcacgggcta 420

tcaattgtcc nanagctggt gtgacaacaa ttaggagaac aagccgttaa cgttttcaag 480

tgaaagatgc ttcaaggaat cc 502

<210> 4653
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-E9

<400> 4653

ggccntcacg gtccggaaat ncccggggtc gacccacgcg tccgtaaaaa taaaaataag 60

tggagaaatc aaaatcatcg attctccttt gtttcgccta acccaattcc taaatctcag 120

catctttcat caatccaatc tctcaaataa gcgagagaga aacaaagatt atcgaatcct 180

tggagacgaa aacatactcc aatttgtaat tttctcgtct ttttttttac ctgattttgt 240

tatacgtttg atcgaaatca tttgctctga tggatctctg ttttgttaac ccttttgaga 300

tttggtagat atggttttga ggattgatat atttgccgct gattgtcgtt gaaaaattgt 360

gaaatttgat ttggtggttt agggttaaaa tgaaattata tgatgaggaa tataagaatc 420

cngatttttt tnaataaaat ccccaaatgt tcctggtaac tgtgaatgaa acnttgaatt 480

t 481

<210> 4654
<211> 500
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-029-Q1-E1-F2

<400> 4654

acggtcggag ntccgggtcg gccaagcgtn cggcttaggg gnnnaagtna agttnaaact 60

tnctnctnct nctnaccgga aangcgtctc gtaacactga tctctaatga tcttcgtctc 120

caatggcgat atcagtacaa cacgtcgtcg ttttactcct ctccactctc ctcatcgcca 180

tcaccttctt cctcttcacc tccgataacg ccagattccc tttcccttct ctctccacca 240

ccgattacta cacaccaatc ccaaaatctc caattcctca ccgaatcgtc gacgtttctt 300

cagatcaaac tccacagaag atgaagctaa acacttccct cgaggtggga gagctgaaat 360

gggatctatg taaaggtgca gaatctgttg attacatacc ttgtcttgat aattacgccn 420

gccatcaagg aagtcaatca agggagacat tatgggggaa tcgagaaagt caattggccc 480

tgaaccaaag tcctaaaang 500

<210> 4655
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-F6

<400> 4655

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cagagactaa aaaggctgtt caaacagtaa taattcttgc acatgaacac taaaccagaa 120

cgataacagg aaacaaagat acagtcagta ctcagtantt tgagggcacc tacggaaagc 180

aagtaatact acagagggta gacgttccag tgcttaatga tgaaacatca tcagtanaag 240

caaacgtgtt tttcatcata caccgtatca ctttcacaag tggctgcaat cattcccgca 300

gcataaggag atttgacttc gagaagcaan atcaactttg cncanaggac aaggctacca 360

agaaantggg aactccncat tgctaancct ttaagggaaa tcccttaaaa nggaaggcct 420

tttcaaacaa ggcttct 437

<210> 4656
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-F7

<400> 4656

aaagcatttg gggaagagta ggttttgcga tctgtgattt tctgaggaga aacgaaaatg 60

gcgtttagag ggaaggagat gatgaagaan ctggtaaaga aagttggagc ggagaatatc 120

acgccggagc tcaaggataa gctcaaggct tgtgttcctg ataccaaagt cgtcatgggc 180

agagccaaac gcggtctcta cgccggccgc cacatccagt acggaaaccg tgtcagtgaa 240

gacggtggna acaagtcaag aagatgttgg aaaccgaatg tccancacaa gcgattgttc 300

agctacatat tcgacagtca cagtatcngt cacaatcacn acacangcnc ttcgctgcat 360

cnacaaagca aganggatta aacgagtact tgctgaaaac ancaatccca tnagattggc 420

caca 424

<210> 4657
<211> 497
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-C4

<400> 4657

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natggttcga tccttcccag taaaacgcgg cgtgttcgaa ttctgatcgc ttttacgcga 120

gaaaggggga ccaccctcta agcctaagta ttcctcaatg accgatagcg tacaagtacc 180

gtgagggaaa ggtgaaaaga accctatgac gggagtgcaa tagagaacct gagatccgat 240

gcgaacaatc agtcgaagga gtagtcaagc gcactcactc taacggcgta ccttttgcat 300

gatgggtcag cgaggaaatg ggaagagcgg cttaagccat tangtgtagg cgctttccaa 360

aggtgggaat cttctagttc ttcctatttg acccgaaacc gatcgatcta gccatgaaca 420

aggttgaana nactctaaca ggccttggnn ggaccgaacc cacnttgtgg caaaatncgg 480

gaatgacttt tggtaag 497

<210> 4658
<211> 418

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-A5

<400> 4658

taaagaaagg ggcttgattt tggacaaagg cacgtgtctt agtttttttat tcaagctccg 60

atctataagt tatgatttgg gtttggtttt gagttctcca attttagtct catctctgtg 120

gttgttgtaa ctgggtttgt gatggaagct anaattgaan gtgaagtaga aggtcacagt 180

ttagaatacg ggtttagtgg taaaaggagt gtagagtggg atttgaatga ttgggaatgg 240

aatggtgatc cctcttgcta cacaactgaa tcacgggtca tccaacaact cntctacgtg 300

ctctgatgaa aggaaatgtt taaatcatgg anaagaaagg ggggttnana tggggaaaaa 360

agaanaaaat tnacanctttt tacggnggga ncaatgggaa gaaaataact ttaaaaat 418

<210> 4659
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-A7

<400> 4659

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ttttcctgac aactttatgg accagctctt gtgggaggag tgctgggaag aagaggcaac 120

gcagcatgac caggcattat catcaccatc agggctgaag gagagggtgg cttgcgccat 180

ggggcacctg caagaggtga tgggaganag ggagttgctg atccaactgt gggtgcctgt 240

tgagacaagg ancggccgan tgctgancac ngaggagcaa ccttactcta tcaacacctt 300

ctcccaaaag ccaaaacctg gcctctaacg atgacncctt cactggctac agcttccaac 360

ataanttggg ttcnggncaa cctgntgggg ctgcntggcc tttgtcccgg angaaaatgc 420

ctgantggac ccaanacttc cgnttttttag ggaagg 456

<210> 4660
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-A8

<400> 4660

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tgaggagagc ttcgttgtct tccccattgc aattagggtt ttcaaaacgg gtaatcgaat 120

tcggtggtgc tcggctttga aattgaggat gagatccttt ccacttcctt ctacctgctg 180

acaatgggca actgcggtac tanagacgag gctgccgtct tcactcctca agctcaagcc 240

caacagctcc agaanaagca ctcgcgatcc gtctcanatc tgagcgatcc atccactcct 300

cgcttccgag acgactctcg cactcctatt tcgtatgccc aagtcatccc ctttactttg 360

tttgagcttg agaccatcac cantagcttc cgcncagatt atntactcng gagaaagtgg 420

tttcggtacc gtcnacgagg gttacaattg atgaanaatc tccg 464

<210> 4661
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-B1

<400> 4661

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aaaannaacn acngtaaagt tacttgatta aggggttaag aagagatact ggtgtttttt 120

ggcctcaatc agctaagatt tttgtgcatt gtatgatgag tatagcaaat gaacaacaat 180

ttgccatgga tcaacttgtc gaaaccaatg atgattcnga aaagaaacca agaattacat 240

acacnaggaa gtttcntata tccttgagcg agaaagacgt ttgcaagaag ctgccaaatc 300

tgcctggtga atttgatgaa gcactgttgc ctgacttcna agatccttca cccgancgaa 360

caagaatttc aagggaattt ttcgtcncat ggnttcaggc ggaatgacca aaagttcaac 420

gcctccaaca angggggaa 439

<210> 4662
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-B10

<400> 4662

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catataatcc gccgtccgct aatattcctc gattagaatc tccggcgatc agaaatctcg 120

cggtgaattt tgatggaaga aaagctgcca aaatcgctca agaatctcga tttgaatacg 180

aatcgtggtc gtggaccaga gaataagatt cttgtttcag cttatgtatc ttcgtcacga 240

atgtctccac tgaaatcaaa acctccatct cttgtgagct catgtcttgg tgttattggg 300

aagcatttgg aggatatgat tcgttgttta actgaaatcn ctgttatatt tcctgcagac 360

atcaaagatg tcgattgcag caattcctaa aaagaaaaaa actgctggga tgaatgatgt 420

taataacctg gtttggg 437

<210> 4663
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-B11

<400> 4663

gaactggttc tcctgggcct cacggtccgg naatnccggg gtcgacccac gcgtccgtta 60

acttcttcga tctcttcttt ttctctacac gattcgattg attcaagtat caatcaatcg 120

aatccgagat aagtcatgag tttcttcaaa tgggtttctt ttgttttgat ccttcacttg 180

cttaatccga ctctgatttc atgttcctct aatgggttat ctcaaatacc ttcaaagttt 240

cttactttgg ctaaaaggaa tgatttttc gattggatgg ttggaatcag aaggagaatc 300

catgagaatc cagagttagg ttatgaggaa gtagagacat ctaagcttgt tagagcagag 360

ttggagaaga tgggtgtttc ctaaaagtac ccagttgctg ttactggtgt tgttgggtaa 420

gttggaactg gtcatgctcc ttttgttgcc ttaagggctg atatggatgc acttgctaag 480

cangaaaagg gggaat 496

<210> 4664
<211> 478

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-B2

<400> 4664

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ttgtaatcng tttgtacttt acttctctct ggtcagtacg tttccnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nngggcggcc gctctagagg atccaagctt acgtacgcgt 240

gcatgcgacg tcatagctct tctatagtgt cacctaaatt caattcactg gccgtcgttt 300

tacaacgtcg tgactgggaa aaccctggcg ttacccaact taatcgcctt gcagcaacat 360

ccccctttc gccaagctgg cgtaataacg aaanaaggcc cgcaaccgat ttgcccntcc 420

caaanagttn ccgcaacctg aaatggcaaa ttggnacncc ccccggtaac cggggcaa 478

<210> 4665
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-B4

<400> 4665

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aggtaaccta agtttccncg gattttgatt aattnancna nanggnnatt gangtcggac 120

cagttgatcc atctgtccta tacgagcaag acctccatgt ttcttctgct gtttgggaag 180

gacaggaacg aggtctactt cgttgtcaag aacacacttc attgctacat caatggaaac 240

tcactgatga acaaattaac ctcgtggaca aagctggttt cggttacttt cgcaaaatcg 300

gtccaatgag tttaaacaat tcactgatct ctgcacttgt tgagcgatgg agaagagaaa 360

ccaatacttt tcatcttcct ttaggagaaa tgactataac cttagacgaa gttgcttant 420

acttggactt gaaattgatg ganatccatg ttggttcaaa antggggata aggttccaag 480

ggana 485

<210> 4666
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-B5

<400> 4666

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agtattatgg gaatcggtga agaaagcaca aagcctattt gggggagcgt gagccacacg 120

tcttcaggct acgctctcaa cggcaaaatc atgctctcct ccgtgatcgt tctattcgtc 180

gccgttatta tgatcctctg cttccacagc tacgcccgtt ggttattccg tcgtcacaac 240

cgtcgcattc gccgccgtat tcgttctcac ctccgcactc tctccgcctc accccgagac 300

caagctctcg accaggctgt tctcgacaag attccgatct tcgtttaatc ctccaaagaa 360

tcaacaacaa caagaagana aaggaggatt gctccgtctg cttgtccgga nttcaaggaa 420

a 421

<210> 4667
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-B8

<400> 4667

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ggaaaatcta tagttcctaa tgttatcaga gtcgtcgaac tcgcgaggca gcgtggtatt 180

ctcgtaattt gggttgttcg agaacatgat cgtcaaggaa gagatgttga attattcagg 240

cgccataact acagttctga gaaagtcggg ccagttatta aaggcaccgt angancagaa 300

ttggttgatg gattgatgat caacgaagaa gatgactata aagattgtga aaactcgttc 360

agttgccttt ctttaagtac caatccttca atcccttctt gcaaaacttc aaggggggtta 420

ccaaanttta ntgaattgcc tggtgttgca aaacncccga actgtttccc gggaaaa 477

<210> 4668
<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-C1

<400> 4668

ctgggcnccc accgggtccg gacgaacccg ggtcganccn agcgtncggn cnaancccc 60

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acccccttcga gatttggtgc gatgatgttg cgtgctgttt ttaggagagc ttccattaga 180

ggctcttctt ctgcttcggg attgggaaaa tcattgcaat cctctcgtgt tgcagtgtct 240

gctcaatttc attctgtttc agcaacagag acgttggtgc ctcgtggaaa ccatgctcat 300

agcttccatc accgttcttg tccagggtgt ccagactgtt caaggactat tatcaacggt 360

taccaaggca cagccctgca aagatgggtc aaggcctttt catctgataa tggggatgtc 420

gtggaanctg ttgtgcacac atgggtgaac aatcactgat ggaacctanc gcctttcgaa 480

naaactgggg aa 492

<210> 4669
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-C11

<400> 4669

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tttcttttct acaatttttc tcctgctaat tatcaaattt ttcttctgat tttcattgtt 120

tgttagagat tcttcttctc ctctgctttt ctattctctg ggagctcgat gatggatgat 180

aaagctcgca aagaagaaga acatcatgtg tctcaccaac ataatcattc tcctctgcaa 240

agggatggaa attctgctga gattgcacaa ggacaagagc tatcatcacc gggccgagac 300

ctatggaggc gangtctgtg ttagatttac catcaacaac acctgaagat actacaagag 360

atgatctttt agacgaaatg catctttaac ntcaagtcct gttgccaaaa gaatcaactt 420

ttctccaaag gtccaaccct a 441

<210> 4670
<211> 523
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-C12

<400> 4670

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cgtcaattat catctattca ggggtaagct atgggatgtg cttcttctct tccagatagg 120

aactctggaa ctttaagtgg tcttagcaat tcagagaatg ctgttccagc tgatgccaaa 180

aatctacgtg tgaagttagt tctattagga gactctggtg ttggtaaaag ttgtattgtc 240

cttcgatttg tacgtggtca gtttgacgct acatctaagg taactgttgg agcctcgttc 300

ttgtcccaaa ctatagcatt gcaagactct accacagtga agtttgaaat atgggataca 360

gcaaggacag gaagaaggta ttctgctcct tgcaaccaac taataccaac cgtnggaagc 420

ctggaatttg ctggttaant tgtgntatgg ataataacaa agcccctgga aatccgtttc 480

aaaggaaaaa gccacaagtt aattggggtt taaagggaaa cct 523

<210> 4671
<211> 504
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-A4

<400> 4671

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accaannccc tttnctccca tggaanaaan cancancncg gccgttgtgg attttcctga 120

caactttatg gaccagctct tgtgggagga gtgctgggaa gaagaggcaa cgcagcatga 180

ccaggcatta tcatcaccat cagggctgaa ggagagggtg gcttgcgcca tggggcacct 240

gcaagaggtg atgggagaga gggagttgct gatccagctg tgggtgcctg ttgagacaag 300

gagcggccga gtgctgagca cggagganca gccttactct atcaacacct tctcccagag 360

ccagagcctg gccctctacc gagacgctca gctggctaca acttcgcagc anaagttggt 420

cggnnaactg gtggggctgc tgggccttnt gttccnaagg aaatgcctga ttggncccaa 480

acnttcggtt tttcaggaag gagg 504

<210> 4672
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-E12

<400> 4672

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ccccacttga ccaaccccgt gaggataaac tgttgccgac gcttctcgcc gataacaccg 120

gttttgttgt gacggaaagg aaaaatgggt ttgatttctg ggattctgtt cgggattatc 180

ttcggcgtan ctctaatggc tggctggagt cgtatgatga ctcaccgatc gtccaagcga 240

gtcgccaagg cagttgatat gaaactacta ggctctctta gcagagacga tttgaagaaa 300

atttgtggtg ataatttccc tcaatggata tcgtttccag catttgaaca ggtcaaatgg 360

ctgaataaac tactgagcaa gatgtggcca tatattgcag aggcagcaac aatggtaata 420

agaaattctg ttgaacctct gcttgaagaa tacagaccaa caaggaa 467

<210> 4673
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-E2

<400> 4673

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accatgtgaa atttggaaaa tggnaaggtc tgaatattcc aactctagca ctgtaagttc 120

ggaaggcagt gttcaagatc taagtcagaa gattagtcaa tcggatgaag catcttcaaa 180

ccatcaggaa acgggtctgg tgaagctcta cagtgttggt gaaagttgca acgagaacat 240

tccggaatgt agttcatttt tccttccaaa agctgccatt ggatttatca caaaccttgc 300

atcaagcctt tttggttatc agggttccac ttcggttata agttcacatt cacgttgcaa 360

tgattctgaa gatcaaagtg actctgaagt ccttgttcaa gaaacagcaa gaatcatatg 420

acaactctga aacaaattca ggtgaanttg gtatgaccac aacgatggtc aacat 475

<210> 4674
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-E7

<400> 4674

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tcttagagga gattttgata gcatcgttta caggagtaag atccgggaat ggcaatggag 120

gttggggaga tgtctcagcc ggaggcgacg gcgagtcttc tctctctcgc ttccgccact 180

cagcaaccgt acgtctccga gctcctctct ttcactcttg atcgtctcca caaggaaccg 240

gagctgcttc gagtggatgc ggagcggatt cagaggcaaa tgcaagaggt ggctgttgga 300

aattaccgcg cgtttatcac cgctgctgat gctttgcttg cgatccgtca ggaagtttct 360

tccattgata agcatctcga gtctctgatt ggcgaagtcc caaaactaac gtccnggttg 420

cactgaatta tc 432

<210> 4675
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-F1

<400> 4675

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cttnncntcn tcttctctct actctattct aattctaaag agagagagaa aagctatgga 120

tggatatgaa gctactagga ttgtgctctc tagaatccaa agcttagacc ctgaaaacgc 180

atcaaagatc atgggtcttc tccttcttca agatcacggt gaaaaagaga tgataaggct 240

agcttttggt ccagagactc ttgttcactc tgttatagtg aaagccaaga aagagttagg 300

tctcatgaac tgttcaaggt ctccgtggag tcatcaagat gagttgatta gccctaagaa 360

caaccgtggc tcttcactca atccaacttc cttgcccttt tacctaatgg aggaagatnt 420

ccaaggaatt aaccaacgaa ttcaactcat ggatgatatg aactccagaa gtaatga 477

<210> 4676
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-F10

<400> 4676

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taaactggac tatcttgatc tttatataat tcattggccg gttagctcga aacctggtaa 120

atacaagttt cctattgatg aagatgattt tatgccaatg gatttcgaag tagtgtggtc 180

tgaaatggag gagtgtcaga gacttgggct cgcaaaatgc ataggagtaa gcaatttttc 240

atgtaagaag cttcaacaca tactctctat cgcgacaatc ccgcctagcg tcaatcaagt 300

tgagatgagt ccaatatggc aacaaagaaa gctaagggag ctttgtagat cgaacgacat 360

tgttgtcaca gcgtactcgg tgttgggatc tanaagagct ttttggggaa ctcccaaaat 420

tatggaatct gatgttctca aagaaatagc agaagcaaag gaaaa 465

<210> 4677
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-F12

<400> 4677

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atagtgaaga cgacgaacct ttgaggacac tcttcggttt ctccaatcct tcatatgatg 120

tcggacggag gagcaccgtc gagatacgtg aagttgacga nggnacaagc tccggtcgat 180

gagattcatc ccggtgaant caatcanccc attgangttt ctcatctagc tgttcacaaa 240

tgcantgagt gtggccaacc tttgcctgag aattttgaag ctcctgctga tgagccctgg 300

actaccggaa tattcggctg cactgaggac atgaatagtt tttggntggg acttttctgc 360

ccaagtgttc tatttggacg tgtctatgaa actctgantg atgaggaaac ctcgtggaag 420

anagcatgta tttgcattcc attgtantan aaagcggtct tactgctgca tc 472

<210> 4678
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-F7

<400> 4678

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atggnggagg aggcaaggct tgtggattat ttcgatgtca tctcaggaac aagcaccgga 120

ggtttgatag tggcgatgtt gaccgcacaa gaccaaagcg gtggccatag ccgcaacagc 180

aaccgccctt tgtttgaggc caaagaaatc gtccctttt atctcaaaca ctcacccaaa 240

atctttccac anccacgagg gatattctgt ggttggggtg aaaccatagt gagacttgta 300

ngaggaccca agttcaacgg taaatacctt catgacttan gntgaaggtt tcttgggcga 360

cacaaaatta actcantctt tgacaaacgt tgtcatacct tgcttcgaca tcaagananc 420

tccaaccagt tatccttcnc ctc 443

<210> 4679
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-F9

<400> 4679

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catgttgaca agattgtatt cactggaagc acaacaactg gaagcagcat tatgacttcc 120

gctgccaaat tggtgaaacc agtttccttg gagcttgggg gtaaaagccc tatcattgtc 180

tttgatgatg tcgatattga taaagctgtg gaatggacta tgtttggttg tttctggacg 240

aatgggcaga tttgtagtgc cacatctcga cttcttgtgc atgaaaggat tgctgacgag 300

tttttggaca agctggtaaa gtggaccaag aacattaaga tttcagatcc ttttgaagaa 360

ggctgtangc ttggtcctgt tgtcagtaaa ggacagtacg agagagttct aaagtttgtc 420

tcaaacgcta ngaatgaagg tgcaactgtt cctttgtgg 459

<210> 4680
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-G1

<400> 4680

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ggcggtggcg tgggttacct ttaacaaaca aaaaatggca agcgcgaatc cagaaaccgc 120

caaacccacg cctgcaacgg tggacatggc taatccagag gagcttaaga aagttttcga 180

ccagtttgac tccaacggcg acggcaagat ctcagtcctc gaactcggcg gtgtgtttaa 240

ggctatgggg acttcctaca cagagacgga actcaaccgc gtgctcgaag aagtcgatac 300

agatcgcgac ggttacatca acctcgacga attctcaact ctctgtcgct cgtcttcctc 360

cgccgcagag atccgtgacg ctttcgatct ctacgatcag gacaaaaacg gactgatctc 420

ccgcctctga agcttcacaa ggtgcttaan cgtctccggg angtcctgcn ccgttgaaaa 480

acgtacc 487

<210> 4681
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-G11

<400> 4681

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tcctctatga acgtagcgac gatgcaagca ctgactnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gtgaccgtta ctggatactc cggtagaagc 180

tcggcttacg cgccttcttt ccgttcgatt aaatgcgtct ctgtttctcc ggaagcttca 240

atagtaagtg atacaaagaa gttggcagat gcttctaaga gtacaaacct tataccaaat 300

ttaccgctgt atantccccg attagcttaa tcctggttcc ttggcttaac cgttgttttg 360

gtcaaaagaa agatgaancg gtgaaagctc cctaaccttc cnttttcgaa gtccggtttg 420

aagcctgggt t 431

<210> 4682
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-G12

<400> 4682

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annntagaat actgagtact aaactggnaa ccctttataa gcaaaaagac caanagttaa 120

aagttaatta agatttggtt taaggcgctt tgctttatta gagaggaagg aacgaaccat 180

catagaaatc tctccttcgt tcaagttttt ctctactgtg ttggttgagc aatcgagtga 240

tggttattgc ggtggcgacg acgagctcca ttgtttccgg aatcaagctt tcagggatct 300

taacttcgtt caacgccgta gatgatgcgt ccagtagttg cggaagaagc aacttgaccg 360

gagttagaat ttttccgaca ttgaatcggc gacgattctc atcgattgga gctgtttccc 420

caattcgtgg ggatgctcaa tcttccttaa tccg 454

<210> 4683
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-G2

<400> 4683

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anagatgatc tataaaaatg gaacgagacg gatcatatgc aaaccataaa attaaactat 120

ctgccaaaca cttaaaaaat caactctaga gatgggactt gagacaaaac caaacctctc 180

ctttgtactc atcatcctac tactcggctt ctttgcagtc tcttacgctt ccgttcctcg 240

gaaactaaat ccacatcaac gcatcggttt cttgaagccc ttcccgaaag tcttcacctt 300

caagcccttа ccaaaagtct tccccttcaa gccctcaccg aaagccttcc tccccaagcc 360

gatnccggtt actccaaaac cagtcccagt taagcgacca cgaccaccaa ctcctgagtt 420

cgattctcca actgacgtag cccaactcct cccctcctct ccaggcttct ca 472

<210> 4684
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-G4

<400> 4684

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ggattcattg agttcgtcag ccactctgta gcagagcggg ttttgcagac ttacaatggt 120

gctcccatgc cgagcactga acagacgttt aggctcaact gggctcaggc tggggctgga 180

gagaaacgat tccagactga agggcctgac cataccattt tcgtaggtga cttggcacct 240

gaggtgactg actatatgct ctcggacaca ttcaagaatg tgtatgggtc tgtcaaaggg 300

gctaaagttg tgcttgacag gaccactgga aggtccaagg ggtatgggtt tgttaggttt 360

gcggatgaaa atgagcanat gcgtgccatg actgaaatga atggtcaata ctgctcgaca 420

aggcctatgc gtattggtcc ggctgccaat aagaatgctc ntccgatgca acc 473

<210> 4685
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-G8

<400> 4685

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caaggttcgt cttcagcttc acggtgaagc accttccacc accaccgtca ctctcctccg 180

tccagctctc gctttcccca attcttctcc tgcagctttc ctggaaacga cttcttcagt 240

ccccaaagta ggaccgatct cactcggaat caacatagtc aaatcggaag gcgccgccgc 300

gttattctca ggagtctccg ctacacttct ccgtcagacg ttatattcca acaccaagga 360

tgggtctata cgaaagtgct taagaacaaa atgggactga tcctgagtca nggaagttga 420

atctgantag gaaga 435

<210> 4686
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-027-Q1-E1-D9

<400> 4686

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aaagtctgtg gcgatgaggt caaagacgat gacaatggtc agacttttgt ggcgtgtcac 180

gtgtgcgttt acccggtttg caaaccttgc tatgaatatg agcgtagcaa cggtaacaaa 240

tgttgccctc aatgcaacac tctttacaaa cgccacaaag gctctccaaa aatcgccgga 300

gatgaagaaa acaatggtcc tgatgattca gatgatgagt tgaatatcaa atatcgccag 360

gatggttcct ccattcacca gaattttgcc taaggat 397

<210> 4687
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-H5

<400> 4687

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aaggaggaaa aacatggcag accaanaatc agataagaac attgagattt ggaagatnaa 120

gaanctaatc aaaggacttg aaaccgcaag aggtaatgga acaagtatga tctctcttat 180

aatgcctcct agagatcaag tacctcgtgt cactaagatg cttgctgatg aatacggaac 240

cgcctcaaac atcaagagtc gagtgaatcg tcaatctgtt ttatctgcca ttacttctgc 300

tcaacaaaga ttgaagcttt acaacaagag ttcctccnaa tgggtcctgt tctctatact 360

ggaaccantg ttactgatga tggtaaaaga gaagaaagtg acgattgatt tcgagccttt 420

aaaccgatta a 431

<210> 4688
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-H9

<400> 4688

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gaaaagctac cttctccgag cctcacgcct tctgaagtat ctgaatctac tcaagatgcc 120

ctaccgacag agacagaaac tctggagaaa gtgactgaga ctaatccacc ggaaactgca 180

gataccacca ccaagccaga agaagaaacc gcggcagagc atcatccacc gacagtgacg 240

gaaacagaaa ctgcatcgac ggagaaacaa gaggttaaag acgaagcatc gcagaaagaa 300

gtagctgaag agaaaaagag tatgattcca caagaatctt ggttcattca aagaagaaag 360

cagcaaactt tctgatctat ctaattccga agaaagaaat cactcgatga ac 412

<210> 4689
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-A12

<400> 4689

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ccgccgaaac cgaaactact aaccctaatc tctcacatca cataaacaat cacttcacat 120

agccgcaaaa tttaatggca gacgtcaagg ttcaatccga atccgaatcc tcggattctc 180

atcccttggt cgactatcaa tcacttccac cttatcctcc gccgcatcca ccggttgaag 240

tagaggagaa tcaaccaaaa acatctccga ctccgccgcc gccacactgg atgcgttatc 300

caccggtgtt aatgcctcag atgatgtacg cgccgccgcc accgatgccg ttctcacctt 360

atcatcaata tccgaatcac caccactttc accatcaatc tcgtggtaat aagcatcaaa 420

acgcttttaa tggtgagaat aaaactaatt gggttggtga tttgcaaaac tgg 473

<210> 4690
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-A2

<400> 4690

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cgtcctttgn ttcgtctttc attcattctc ctttgtgttt tctcttttg gagattttaa 120

cttcagtttt tgtctaatta gggttttaat ttaaattgga gggaaatttt agatgcagtg 180

acgtagtttt tgggtaaatt ttcgtcggat tctgaattgt ctccggcgac atggcttcta 240

atctccccat gagccctcaa ttggagcaga tccatggcga aatccgtgac catttccgag 300

ccctcgcgaa tggtttccag aggttggata agattaagga ttcaactaga caaagcaaac 360

aacttgaaga acttactgac aagatgagag agtgtaaaag attggtcaaa gagttcgacc 420

gtgaactcaa ggatgangaa ctagaaatcc cctgaagtaa ataagcaatt gaacgatgag 480

aa 482

<210> 4691
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-A8

<400> 4691

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gtagcttatc gacggcctta aactaccatc tggattctcc tgataacaaa cccgatcttc 180

catgggagtt ttcagaggct aaccaatcta agaatcggct attctggaac tgatttaagg 240

gagagactta gagtgaacga cccaaatggc caacagattt gaatctgcta gtgtggcaga 300

aagactgtcc agaaattagt aaaccggttt cattgtagtt taaatcctaa tactttcttg 360

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gaaatcgatt t 431

<210> 4692
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-A9

<400> 4692

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gagaagcgga gaagcagaag cagtatgttg cacttgtatg gatttctcgt ccacttgaag 120

agaaagactt caactcaatt tcttgcctga aagaattgaa aatcttgcag aagacaccag 180

taagagtgct tcaccgacga agtccactgg accgtgaaaa gattatacat tggatgaaag 240

ttgaaaagat aaaaggacac tctcactact ttctattgca tctgtgcacc cagagtttgt 300

tcatggagat cttggtcgta ccactcccag catgggatca attttagggt gcanagcgga 360

gataatacaa ctagatgtga ctgatgtgaa antgggcgaa ccaatgaatn cca 413

<210> 4693
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-B1

<400> 4693

cccgtacggt canaaattcc cgggcccacc cacgcgtcca aaagacgcgt ggnggatgaa 60

acatacggag gaggctacgg agctccacca ccgtctggat cttcagatta cggaagttac 120

ggtgctggac ctcgtccgtc gcagccgtct gggcacggtg gaggatacgg agctactcca 180

ccgcatgggg tttctgacta tggaagttac ggtggtgctc cacctcgtcc agcgtcttct 240

ggtcacggtg gcggatacgg aggttatcct ccgcaagcct cttatggaag tccttttgct 300

tctctgattc cgtcaggttt tgctccgggg acagatccga atatagtggc ttgctttcag 360

gctgcagatn aagatggtag tggctttatt gatgataagg agcttcaagg agctctctct 420

tcntatcaac agagattcag tatganaact gttcancctc ctaagtacca a 471

<210> 4694
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-B8

<400> 4694

nactttatct cccaanggng aaaactcctc ttcaccaact taaaccctat taactaatcc 60

caacaatcag atgtttcgaa ttcaacaacc agctcaggcc ataagattca tcccggagaa 120

acaagaacga tgacaacaca taaacataga agaacagaga aaaatctctg ttttaagcaa 180

tactacaaat ggatcctctg ttttatcctc actctctatt tttttgcttc cttctttgtc 240

gaccatgatc aagatcatag atcttctact tccatatcaa agcatcttct tactaaccat 300

aaacctaagc ttttcgcttc tcgtgccatg tttgaatcta aaatccatga tcacaaactt 360

gggtttacct ctcaacaacc taacatcaaa acagacgtat caacaatttg aaatctacgt 420

cnatgactta c 431

<210> 4695
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-C10

<400> 4695

ctttcatttc actcgatcaa gtttgagctt agcttttaaa anaagagaga aacaaatcat 60

gaggacaatg gttgatttag gaaancaaag agatcataac tatcaccaca tgcaaatcat 120

aaccactcct acctccgtgg antgttctcg cgaattccgt caccgangaa cacttcgttc 180

actcatcgaa tgcatgattc catactgttg cacttaccaa caacanccat accaanacga 240

caccctttca gtcncntcca cttcatcntc gtcntcatcc tcagaccact cttccncctc 300

ccanagtagc antaccgtat gtggaacttt cttcggacac cgtcntggcc gagtcagctt 360

ctgccttcaa gacgccgccg tgggatcttc aacgctgctc ctnctcg 407

<210> 4696
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-C12

<400> 4696

aattctattt agttcgncac ggtcacacna tcncgggncg acccacgcgt ccagacactg 60

ttctctagtt cccatcgacg ttcttgatcc tctctggttc gcacccgtgt ttttaatcaa 120

ttctggttcg cataggtgac tccggtactg tttcttcgtc gatagccttt tcctatggcc 180

acaacagaag atactccagc ttctgctggt ccaagatatg ctccagagga cccaactctt 240

ccccaaccat ggaagggact tattgatgga agcacaggaa ttctctatta ctggaatcct 300

gaaaccaatg tcactcagta tgaaagacct tctgcgcctc ctccccactc tgccacaaca 360

ccgaagctag ctcagattcc tgtaccctct tcaggacaag gtcaccaagc tcagcatgaa 420

caagcaaaac cagttggtca tgtgtctcag cagcatggtt ttcaacaaca agcc 474

<210> 4697
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-C4

<400> 4697

ctctccngcc cgtaccggtc aaaaattccc gggcccaccc acgcgtccag atgtttattg 60

ttagtggnag aggtagagag tctctgagca attggctatc tccttgtgaa aatcttggaa 120

tagcagctga acatggatac ttcattagat ggaagagcaa agatgagtgg gagacttgtt 180

attcgcctac ggatacagag tggaggtcaa tggtggaacc ggttatgaga tcgtatatgg 240

aggcaacaga tgggacgagt atagagttta aagaaagtgc tttggtgtgg caccatcaag 300

acgcagatcc tgactttgga tcatgtcaag ctaaggagat gcttgatcat ctagagagtg 360

ttctcgccaa tgagcctgtg gttgtcaaga gaggtcaaca catcgttgaa gtcaaaccac 420

aaggtgtaag caaaggtcta actgcggaga aagtaatccc gagaaatggt anaaacccgg 480

ggag 484

<210> 4698
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-D12

<400> 4698

nccacggtca tacatacccg ggncgaccca cgcgtccang gacgcgtggg ccattttcgc 60

cacgggtata ctagaaatga ngtggagtgg cgtangcata gacgaatggt ggagaaacga 120

gcagttttgg gtcattggtg gantatccgc tcatttattc gctgtgtttc aaggtatcct 180

caaagtcctt gccggtattg acacaaactt cacagttacc tcaaaagctt cagatgaaga 240

cggagacttt gctgagctct acttgttcaa atggacaaca cttctgattc cgccaacnac 300

nctgctcatt gtaaacttag tgggagttgt tgcaggagtc tcttatgcta tcaacagtgg 360

ataccaatca tggggaccac tctttggtaa gttgttcntt gccttctggg tgattgttca 420

cttgtancct ttcntcaaag gtttgatggg tcnac 455

<210> 4699
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-D2

<400> 4699

aacttctccc gcccgtaccg gtcaaaattc ccgggncnac ccacgcgtcc nncaacaccg 60

aaagtacaga gatggaattg acaatctctt ggtcctcttg atcggtggta tccccattgc 120

tatgcccacg gtcttgtctg tgactatggc tatcgggtct cacaggttgt ctcagcaagg 180

tgctatcacc aaacgtatga cagccattga agaaatggcg ggaatggatg tcctttgcag 240

tgacaaaacc gggacactaa cccttaataa attgagtgtg gataaaaact tggttgaggt 300

tttctgcaag ggtgtggaga aagatcaagt tctactattt gcagctatgg cttctanggt 360

ggagaaccag gacgctattg atgcaaccat ggttggaatg cttgctgatt cgaaagangc 420

cgagctggaa tcaagagaag ttcacttcct tccaatcaaa ccctgttgga taaagagaac 480

tgctttg 487

<210> 4700
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-D8

<400> 4700

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ggagtagtca agcgcactca ctctaacggc gtacctttg catgatgggt cagcgaggaa 120

atgggaagag cggcttaagc cattaggtgt aggcgctttc caaaggtgga atcttctagt 180

tcttcctatt tgacccgaaa ccgatcgatc tagccatgag caggttgaag agagctctaa 240

caggccttgg aggaccgaac ccacgtatgt ggcaaaatac ggggatgact tgtggctagg 300

ggtgaaaggc caaccaagat cggatatagc tggttttccg cgaaatctat ttcagtagag 360

cgtatgatgt cgatggcccg angtagagca ctcaatgggc taaggtggcc catttcgcct 420

tacaacccca agggaaactc cgaatacagg ccgttctcgt ttgtacag 468

<210> 4701
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-H2

<400> 4701

acggacgcgt gggcggacgc gtgggtggat agtgttgcaa atcaagtagt atcttcttta 60

gacattcttg gctgagagat ttacactaaa agcatagaat aagaaacccc tgtttggtta 120

gtatctaccc gagtctcgta gtcctacaca gatccggatc ctagtttcga agctagttct 180

tgtttagctg aagctcagac ccaaaatgct ccaagaaccg tcggctgcat tctccctccg 240

gcgtaactca ttcagacgcc gatctcccag atnaaatgtc gatgacaaga ggctggaatc 300

cgctccatat caaagccaag aaaangngat ntgaaatctg tcaagcagct tctcgaccaa 360

ggaatggatg tgaatgctct aacatgggga accaaatcaa aangagtnag ttgcacttca 420

acttgcanc 429

<210> 4702
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-F10

<400> 4702

gttcgcncac cggtcacaca canaagtncc nggcnacaga tccggngtca agcggtggta 60

tttctgacgt ctacggtgag gattccgcca ccttggacca gcttgtcacc ccttgggtta 120

cctctgtcgc tagtggctac acattgatgc gtgatccgag atacaacaag ggacttgcgt 180

ttactgataa agaaaganat gctcagtact tanctggtcn ncatcccccc gtgattttnn 240

gtcacagatg ttcatgagag gaaggtgatg cacaatctcc gtcagtacac tgttcctctg 300

cagcgttaca tggccctgat ggatcttcag gaaaggaacg agaggttgtt ctacaagctt 360

ttgattgata acgttgagga gttgcttcca gttgtgtaca caccaacagt tggtgaggct 420

tgccagaagt atgggagcat tttcaagaaa ccac 454

<210> 4703
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-F12

<400> 4703

ntctgacact accaggcggc gttctgatca atctacctat ccttctagtc caacgcgaca 60

cggagctgtg gggaaacgat gcaggagagt tcaagccaga tagattcaaa gacggtctct 120

caaaggcaac aaagaaccaa gcctccttct ttccttttgc gtggggatcg aggatctgca 180

ttggccagaa ttttgcattg cttgaggcaa agatggcaat ggcattgata ctccagagat 240

tctcctttga gctttctcct tcctatgttc acgcacctta cacagtcttc accattcacc 300

cacagttcgg tgctcctctt atcatgcaca agctctaatc gttcgtagca acccattttg 360

ttgttatcaa atatactttc caatcacaag atgaaacaan ttca 404

<210> 4704
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-F3

<400> 4704

aaancttact cacatttacn atcnaagaac tgggttttga gatcagggtt gcantacggt 60

gtggattttg tggcacancg tcaccatcca tctcttgtcn actcggaata ctcggtttta 120

gttcagtctg gtgacagtga tcggttaaga gtgtggtcag atatccattg tgctgttagg 180

ttaancggaa ctgttgcgaa aacgttgttg actctctaca ttaatggtaa cttcanagga 240

gaggatgtga atctacttgt atgtttggag aacttcacan tgnaagaaca tncnanaant 300

agatggagcc cagaactcag tcntgaagat naatccacac attcacaaca gcatgttcnc 360

aacgtgagta atttgaacac tctttgagga aacaatctcg gtacncaag 409

<210> 4705
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-F6

<400> 4705

gctcattctc tcttcctcat atatttccaa aacaatacct ttcntcttct ctcttcagaa 60

gaaacgagag attcgagtga tgttttatga actactanta gtgtttnttt ccgtgaagta 120

aagagaaacg gtaacttttt ctatttgttt tcaagaaaag ccaaagaaaa aaagaatttt 180

taatatactc tgtttttttgc aatgattttg ttttgtgaaa tttttctcgg agaagaaagt 240

aatttagaag acggagagtg gcannacgaa atataaaaag aaaagtttтc aatttctttt 300

aagaaaaana aaagcttttt cccttcntaa aacccttcct cngtttcaga agcaattgac 360

ataagaaaga aaatngatta naagctaatt gngttcncat cncctcntcc tctacagggt 420

tttaaaag 428

<210> 4706
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-F7

<400> 4706

ggtaccgaac ttnaattcgc nggtcgaccc acgcgtccan ccacgcgtcc gggataatcc 60

agctatgacc ttggacgagg tttccatgga acgcaacaag agcttcgtta aggcattgca 120

ggagctcaag aacttgaggc ctcaacttta ttcagctgct gattactgtg aaaagtctta 180

tcttcatagc gagcaaaagc aaatggtatt ggacaatttg aaagactaca ctgtgaaggc 240

tctagttaat gctgttgatc accttggaac tgtagcttcc aagcttactg atctttttga 300

tcaccaaaat tcagacatat caactatgga aatgagagct tcttgtgtta gccagcaact 360

gcttacatgc cggacatata tcgacaaaga aggtcttaga cagcaacagc tattaacagt 420

tatcccattg catcacaagc attacattct tcccaattct gttaacaa 468

<210> 4707
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-F8

<400> 4707

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ttgcgtcatc tatacgaatc catacgtctc tttgcttttc tccgatcggt cttcttttct 120

catcgccgga acgctttggt ttaatggggc acaagacatt ttcntggntc aacccagttt 180

tttgatgatg ancatnatca aggctggaat catacacacc cagaacatcc atattcgagt 240

caagcaacat ctgggaccag tgagaacaga tcacatgttt atccancaga anacatgttg 300

aatgaaggaa tgccagtgtc ttctcattgg aactcttctc caggaccaaa tgcttatact 360

gactcaggtc atagtgtgga gagaccacac tacatccggg ggtttccggg gccgttccaa 420

gatcc 425

<210> 4708
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-G2

<400> 4708

ccaccggtca gacanatcac gggccgaccc acgcgtccat atagctccac gcgctcgtgt 60

cgctgtttac aaagtctgtt ggctcggtgg ttgtttcagc tcagatattt tagctgcaat 120

cgataaagcc atcgccgata acgtcaatgt cntgtcnatg tcactcggcg gtggaatgtc 180

ggattattat agagacggtg ttgcgatcgg agcattcgcc gccatggaaa gagggatttt 240

agtancttgc tcagctggta atgctggtcc gagtagttct agtttatcaa acgtagctcc 300

atggatnaca actgttggtg ctggtaactt agatngtgat tttccggcgc ttgccantct 360

ccgtaacggg aagaatttca acgggagttt ccttgnttaa aggaaaanct ttaacggata 420

aattgtgccg tttaattacg ctgggaaagc tagtaatgct actaaat 467

<210> 4709
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-G4

<400> 4709

cggtcanaaa tcccgggccg acccacgcgt ccaggatttt taggtcagat atcgtccatg 60

gaagaggctg attttgccga gaaagatcct tctggccgtt acatcaggta tgatgatgtt 120

ctggggagag gagctttcaa gactgtatat aaggcgtttg acgaagtaga cgggattgaa 180

gttgcttgga acctagttag cattgaagat gtaatgcaga tgcctggtca acttgaaagg 240

ctatattctg aagttcatct actaaaggnt ctaaaacatg aaaacatcat caaactcntt 300

tactcntggg ttgacgaaaa gaacaagact attaacatga tcactgagct tttcaactcc 360

ggtaatcnca aggtatatcg taagaancat aagaaagttg attccaaagg catcaanaac 420

tgggcaangn aaattctcaa aaggctgaac taattgcaat cc 462

<210> 4710
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-G5

<400> 4710

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gatgaccaac aatctccacc gttggatcta ccctctaccg ccatagctga tccttgctca 120

tcttcctctt caccaaacaa atctcgtaac tgtatctcaa attctcaaac tttccctgac 180

catgttctcg aaaacgtact tgagaacgtt cttcagttcc tagattcaag atgtgaccgt 240

aacgctgctt ctctagtttg caaatcttgg tggcgtgttg aagctttgac tcgatctgag 300

gtttttattg gtaactgtta cgctctttct ccggcgaagt tgactcagag attcaagcgt 360

gttaagtctc ttgtgctgaa agggaaacct aagtttgctg atttcaatct catgcctccc 420

tgaatggggg 430

<210> 4711
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-G7

<400> 4711

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ttcgtcgtct catggtggcg agtacaagaa tttccgacag attacgcgtg aacgactctt 120

gtatgagatg cttagatctg caaagacagg gagctcaaaa tccacctgga aggtactaat 180

catggacaaa cttactgtca agataatgtc gtacgcctgc aaaatggctg atatcacaca 240

agaaggagtt tcattggttg aagacatatt tagacgaaga caaccacttc cttcaatgga 300

tgcaatatac ttcatccagc caactaaaga gaatgtcatc atgttcttgt cagacatgtc 360

tgggaaatca ccttgtacaa gaaggcattc gttttcctca gttcaacggn ttccaagg 418

<210> 4712

<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-G8

<400> 4712

gcatgcatcn aagttcttag tgggccgttt ttggtaagca gaactggcga tgataggatg 60

aacctaacgt tgagttaagg cgcccaaatg cacgctcatc agataccata aaaggtgttg 120

attcataaan acagcaggac ggtggccatg gaantcggaa tccgctaagg agtgtgtaac 180

aactcacctg ccgaatgaat taccccctgaa aattgatggc gctgaagcgt gctgccgata 240

ctcaaccatt agtgcanntt taatatgang cnctaatgag taagagggcg tggggacaag 300

tgtaaaancc tttancgtga gcttgggtgg aactgtctct agtgcagatc ttggnggtan 360

taacaaanat tcaaatgaga acttngaagg ccgaantgna aancggttcc atgagaacag 420

caattgggtc atgggntact c 441

<210> 4713
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-G9

<400> 4713

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cctacaaaac ctccggttat tctctccggc ggcgaacgca gctctatccc tagatcatat 120

ccaagaaacc caattaactt acctccctgg attccctcga cccgatccaa aacacgcaga 180

gacgatctta gccgttccaa ggtctgtctc cggcaagagc atatcagcga aagagcgtaa 240

agcgggtcgg gttccttcga tcatattcga acaagaggat ggacaacacg gaggaaacaa 300

gaggcttatt tcagttcaga cgaatcagat caggaagctt gtgaatcatt tgggttactc 360

ttttttcctc tctaagctct ttgatgttga agttcgaact gagaatg 407

<210> 4714
<211> 404
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-H11

<400> 4714

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gaaatataca gaggaaataa agagagagag aaggagatgg cgtattcaag cgattctgtc 120

tccattgata tggaggcatt gtctcttgga ggacaggaac accttgtgga gactacttat 180

ggcccggttt gtgttgccgt ttgtggagat ccagataaac cagctcttat cacttatcct 240

gatatagctc ttaattatat gttctgtttt caaggattat tgttttgtcc agaagctagt 300

tctttgttac tccacaactt ttgcatatat cacatcagtc ctcttggcca tgagttggga 360

gctccaatga tcagtgttga tgctcctttg ctctcaactg atga 404

<210> 4715
<211> 384
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-H12

<400> 4715

cnctatttaa acatttatct tgtgacgttt cacataacaa gatatatcta caataacccc 60

aagaaattta acagaatgaa agtaattact tccctaatct cttccanttt gcntaaattc 120

atccacaaag acttccatga gatttatgca agaatgtccc tcctcgatng gnttcctcct 180

cctaacgtgc aaggagtgga taaganggnt ccaaggnata agcctccaat aatcctgggg 240

gtaaactanc cttgaagtac gaaagactcc ttcaacaaca atacaatcct ctcaacgtcg 300

gcaaaactcc gactgggatc cggttgatcc tgcaaatanc cgtaccggac tgctgacgga 360

aatcatgatc ccttaagaag ngtc 384

<210> 4716
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-F1

<400> 4716

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tcttacaata tttatagata agataacaac aatatgaagc attctcacgt nttgcttctt 120

ctatttgttc aagtcattgt ccttttgcct ctcctttgtc tatccgacga ttttgttaac 180

tctagagcta cttattatgg cagccccgat tgcaaagcaa atcctcgggg acattgtggg 240

tatggagaat ttggaaagag atatcaataa cggtgaagtg agtggtgttt catggcgact 300

atggaacaat ggaactggct gtggtgcttg ttaccaaggt gangtgcaaa gatacaacac 360

actgcagtga ngaangagta tacgtagtgg ctacggactc ccggagaaag gagatngcac 420

ggacttcat 429

<210> 4717
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-025-Q1-E1-C5

<400> 4717

aacaacaacg atgctgcttc gaatttctgg taacaatctg agacctttga gaccacaatt 60

tctcgctctt cgaagctctt ggttatcaac ttcgccggag caatctactc aaccacaaat 120

gcctccgaga gtaccaaatc ttattggagg ttcttttgtt gagtctcaat catcttcgtt 180

tatcgatgtt ataaaccctg ctacacaaga ggttgtatct aaagttccat tgactactaa 240

tgaagagttt aaagctgcgg tatccgctgc gaagcaagcg tttccgttgt ggagaaacac 300

gccgattact acccggcagc gtgttatgct aaagtttcaa gagcttatac gcaagaatat 360

ggataaactt gctatgaaca tcacaaccga gcaagggaaa gacttaaagg atcacatggg 420

gatatcct 428

<210> 4718
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-C8

<400> 4718

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ctgccatgat ctcccgacct gtctttcttt ccgatcgagt tgatgaagtc ttctctagaa 120

agcttgattt gtctgtctct tcttcgtctt cttcgagcct cctccagcag ttcaataaga 180

ctcatgaagg tgatgatgac gcacgcctgg ctcttgctca tcagctatac aaaggaggcg 240

atttcaaaca agccctggag cacagcaaca tggtttacca agagaaaccc attacgcact 300

gataatcttc ttctaattgg tgctatttat taccagcttc aagagtatga tatgtgcata 360

nctcgaaatg aagaaactcc tccgtaatca acctcaa 397

<210> 4719
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-D10

<400> 4719

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actctctctg agatcttgcc tctttgggcc gctcttcttg ttggcgccgt tcagaacctc 120

atcggttacg gatgggtttg gcttatcgtc accggtcgag ccccgattct tcctctatgg 180

gctatgtgtg ttctcatatt cgttgggaac aatggcgaga cctacttcaa tactggagca 240

ttagtctctg gtgttcaaaa ctttcccaag agcagaggtc cagtggtggg tattctcaag 300

ggttttgctg ggctaggtgg tgcgatcatc tctcagatat atacaatgat tcactcatct 360

aacccggctt ctctcaatct caagggaact gttacgcctg cant 404

<210> 4720
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-D4

<400> 4720

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tgatgagcaa gcggatgcta ttaaagatgt ccttgcaagc gaagaacatt gctgctaatg 120

tctatgttgg tatgcggtat tggtatccgt tcactgagga ngctgttcaa cagataaaga 180

aggacaaaat tactagactt gttgtactgc cattgtatcc tcagtattct atctctacaa 240

cgggttcaag catacgcgtt ctccaagatt tattcaggaa agatccgtac ctagctgnga 300

gtgccggtan ctattataaa ntcctggtac caaaggcgaa gctatgtcaa ttctatngct 360

gacctcattg anaangagcn tcaaaacttt cccctgatcc taaaggangn tatgatantc 420

ctcaattgcc catggtgttc cggtcaacta cgttnaaaa 459

<210> 4721
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-D6

<400> 4721

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cttagttcga catgaaggtc tttatctaat ctccactcgc tggcaatgaa gatgagagtg 120

gaaaccgcac ttgcgatcct tttggttctc atatcaattc aacaatgtta nggangtgta 180

agcaactata catgtacgtg tttctcttcg ggcaatcgaa gtgatatcct ggaatctaac 240

tgttccacat catgtaattg cagaccanca gacagagatc aatgggtatg tttgtgtcct 300

gcaaatggat ttccggttat agccattggt ggttcaaatt cgtcatgctt cacttcatgc 360

aactgctctg ctgggtgcta caaaatcttc aaagaagcaa tatttatcga ggaaactcgt 420

tataanttat actactcctc ctgcggtgta ctaattcact aacaatt 467

<210> 4722
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-025-Q1-E1-D8

<400> 4722

ccaattgctt tcaaggtttt gcagattgtg ttcttagacg aaaagggttt tgaggtgtca 60

tggattccgg gacgcagcca gaagggttgc aggcagcaca gccagcaggg ttgcaggcag 120

cagggttgca ggcagcacag ccagcagggt tgcaggcagc acagccagca gggttgcagg 180

cagcagggaa gcggaagccg cctacgacga ccgaggatcc aaatgatcca cagcatataa 240

tccacgattt cctcacaata gtgaacaaat tggagaagga agtggatctt ccaggcgcta 300

taaccagggc tagaacctat gatgctgagg ttgatggact gataactgct gaccaaccac 360

agacgaatct gggaagagca gaaagtgccc ctattcctaa tgctaagcca gaaggccaaa 420

tgatatcata t 431

<210> 4723
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-D9

<400> 4723

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ccatctgcgc cacttgcaaa ctctcccatt ccaagaaact ctcattcttc tgttccttta 120

gttgttggct gcgtaggcgg tgctttttt cttctccttg tagctaccgg tctctacttt 180

ttcacaagta aggccgggaa aactgtgaat ccttggcgta ctggtcttag tggacaactt 240

cagaaagtat tcgttactga tctgagattg aagctgcatg tgaagatttt agtaatgtca 300

ttggatcttg tcccattggg aagttgttca aaggaacatt atcaagtgga gtggagattg 360

ctgttgcttc ttttgctact actactgcca aagactggga aggacagtac aagaaattca 420

cttcangaag aagattgaaa tgttatcgaa gatnaaccac a 461

<210> 4724
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-E1

<400> 4724

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ttgaaatgga tggagacgaa atgactcgag ttatctggaa attcatcaaa gacaagctta 120

ttttcccttt cctggagctg gatatcaaat actttgatct tggactgcct aaccgcgatt 180

tcactgatga taaggtataa tgtggctatt aagtgtgcga cgattactcc ggatgaagct 240

cgtgttaggg agttcggctt aaagaaaatg tggaggagtc ctaatggaac tataaggaac 300

attttaaacg gcacagtttt cagggaacct atcatttgca gaaacatccc tcgtcttgtt 360

ccaggatgga cgaagccaat ctgtattgga aggcatgctt ttggggatca atatanaacc 420

actga 425

<210> 4725
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-E10

<400> 4725

gccacggtct gnaaatcccg ggccgaccca cgcgtccatg aaactgtcaa agcgatgctg 60

aggatgaggg ttattccagt tttcaatgag aatgatgcta taagcactcg cagagccccc 120

tacaaggatt ctactggtat attttgggat aatgacagct tagccgctct tctgtcgcta 180

gagctgaaag ctgatctttt gattcttcta agtgatgttg agggccttta cactggccct 240

ccaagtgatt ctacctcaaa attaatacac acattcatta aagaaaaaca ccaggacgag 300

attacttttg gcgaaaagtn caaattnaga ccaaggggta ngactgcnaa agttaaanct 360

gctgttaang cancntangg tggcgttttc ctgttaacaa aaccatgtgg ataccctctg 420

aaaatattta atnccttaag gg 442

<210> 4726
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-E3

<400> 4726

cggttcttct ttctctcttc ttcatcttca gacgaaacct cctttacttc cccttcaagg 60

ttttatattt cccaaatcct acacctgctc acatctcaag ctcaagtttt gttttcccgg 120

gaaaagtgac acaaacaaga acttaacaag ggagaagaaa aagcttatat tcatatcaac 180

ggttgacgtt ggaaagctat taagatttgg ttttctacaa atttgttctt cctgaaacgt 240

cacgagacag agcttacaag aagagaaaac agaggaaatt tcgttgcatt ttttttacat 300

attgattcga ttaatggatt caaataatca tctctacgac ccgaatccca acgggtcggg 360

tcctcttcgt tttagatnag ctccgagntc tgttctcgcc gctttggttg aanaaca 417

<210> 4727
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-E5

<400> 4727

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tcatcttctt ggacaagaag tggtccgaac caaaaccaag ccagagaatg aatctctcag 120

gggatcgaac aactctaaag cgtcactcgt cgctttcaac acttgtggct catttctttg 180

gcatcttagc tgttgttctg atgctaattt ggcttctcca ctaccgtgaa ggcatcgagt 240

atggctccga caacccccctt aaggttttaa atgtgcaccc atttctcatg tactgtggat 300

ttctcttcct cgtgggccaa gcaatgatga cttacaaaac ggcgtacgcg tcgcaccaag 360

ttcagaaaat ggttcacggt gggcttcact taatangctt agttctaagt aatgtcngaa 420

tctgcgccg 429

<210> 4728
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-025-Q1-E1-E8

<400> 4728

aaaaacatga aaatcctctc actttcactt ctcttgctct tggccgctac ggtctcggca 60

tccgttccag ggctcatcga actcgtcgat tcgaaaacca tctttgggaa cgtagccgaa 120

ctcttagaga aagagaaact ttccatcaac tacgccaact gcagaagctg gcaccttggt 180

gttgagacct ctaacatcat agacttcgac acggtgcccg caaattgcaa agactatgtt 240

gaagactact tgatcacttc caaacagtac caatacgact ccaaaaccgt gtgcaaagag 300

gcttatttct atgccaaagg acttgcccta aagaacgaca ccgtcaatgt ttgggatctt 360

tgacctagat gataccctcc tctctaatat ccctactacg caaaatatgg atacggaaca 420

agagaagacc 430

<210> 4729
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-E9

<400> 4729

nagagtttat gtacactgtg aagtggaagg aaactgagac tccttttgag aaaagaatgg 60

agaagtactc tatgtcttct tctcttccac atcatttgga aatccactgg ttctccatta 120

ttaactcctg tgtcactgtc cttcttttga ctggattcct tgcaactatc ttgatgcgag 180

tcctcaagaa cgatttcatg aagtatgctc aagatgagga agctgctgat gatcaagagg 240

aaactggatg gaagtacatt catggcgatg tgtttcggtt ccctactcac aattctttat 300

ttgctgcatc gctcggtagt ggcactcaat tgttcacgct caccatattt attttcatgc 360

ttgctcctgt tggagtgttc taaccataca aaccgaagga gcactcct 408

<210> 4730
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-025-Q1-E1-F1

<400> 4730

gcccacgcgt ccgggcggag gatgaaggaa actatctaca agatgcttgg gagcatatac 60

tgacttgtgt ttcacggttt gagcatcttc atctcttggg ggaaggagcg cctcctgatg 120

ccactttctt tgcatttcct caaacggagt caggaaactc tccactggct aagccaaatt 180

ccgtacctgc aattaaagaa agagcacctg gaaaacttca gtatgctgca tctgctatga 240

taaggggttc ctacgatggt tctggtgttg ctggaaaggc ttctaataca gtgacatctg 300

aacagatgaa caacttgata tctaatctaa acttgctaga acaagttggt gacatgagtc 360

ggatatttac tcgtagtcaa agattgaata gtgaagccat aattgacttg ttaaaaccct 420

cctgcaaagt tcca 434

<210> 4731
<211> 535
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-C4

<400> 4731

cgggcgccct agcgggtcca anaanaatcc ccggggnccc cccccaacgc cgtcccnant 60

aacccgantn anaaaatggt ccggggtaaa agggaanaaa tggaaccaag cctatccggg 120

tatccgattc tttggggaac caactttact ccntgcngtc cngagttatg ggcaaacacg 180

aaccgttgtt gangatnatt ggcggatgat caaggggaac agaaccacgc catcttacgt 240

tgctttcacc gactccgaga ggttgatcgg tgacgcagct aagaatcang tcgccatgaa 300

ccccgttaac accgttttcg acgctaanag gttgatcggt cntcgtttct ctgacagctc 360

tgttcaaagt gacatgaaat tgtggccatt caagattcaa gccggacctg ccgataagcc 420

aatgatctac gtcgaataca agggtgaaga ggaaagagtt cgcagctgaa ngagatttcc 480

tccaanggtt cctaattaan atgcnttgaa attgctgaag gcttaccttg gtgtc 535

<210> 4732
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-A11

<400> 4732

actcncatac ccgggccgac ccacgcgtcc acccgttcaa ttcacggctg agtctcttgc 60

accggagttt aacaatgcta ttccctctag cctaacaaga gagagccctt atctgaccca 120

tccaatcttc aacatgtacc acacggagca tgagttgctt aggtacatcc acaagttaca 180

aaataaagat ctatcattgt gccacagcat gattccactt ggatcttgta cgatgaaatt 240

gaatgccacc actgaaatga tgccagtcac atggccaagt ttcaccaaca tgcacccttt 300

tgctcctgtt gaacaagccc aaggttatca ggaaatgttt acgaatttgg gtgagctctt 360

atgtacgatc actgggattc gactctttct cattgcaacc taatgccggt gctgctggcg 420

aatacgcccg gctcaatggg t 441

<210> 4733
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-A12

<400> 4733

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aagggtggtg agatgggaga tgtatgggat gatggtgttt acgaaaatgt tagaaaggta 120

tatgtagggc aagcacaata cggtatagcc ttcgtcaagt ttgagtatgt caatggttct 180

caantggttg ttggagatga acatggnaag aagacagagc tangagttnn anagtttgag 240

attgatgcgg ntnactacat cntatacntg gaaggttacc gtnagaaagt taacgatatg 300

acgtcagaaa tgatcacgtt tctttctant aagactttta aaggcaaaan ctctcatcct 360

atcganaaaa gacctggggt ttantttgtg ccacatggtg gnaaaatcg 409

<210> 4734
<211> 201
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-A2

<400> 4734

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taatgtggtc gattggtttg gttttgttat atattatgca tttgtatggg ggtcagtcaa 120

tgtttgaact ttgtataata tttctttggg tctagtgata aatattttcc cttnnnnnnn 180

nnnnnnnnnn nnnnnnggge g 201

<210> 4735
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-A4

<400> 4735

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngaga agtagagaga 120

agctccgatc tgataggaac tgtgagtttc cttgagtctc cggagaaaga agtcgccgat 180

ttgctcctga taatcttagt ctcgaaatca aaacgatgtt ttgcgattgc ttctactgga 240

ataaaggttt ctccgagttg gaatcggaat cgtccgagtc aaagcccttc tcgcttccat 300

ctcctcttcc tcaatggcca caaggcanag gttttgctac tgggaangat aagtcttgga 360

gaaatccaag tggtgaaagt caccgagttc gatagaattt gggaatgtgg naactccgcc 420

tgggaaaata agaat 435

<210> 4736
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-A6

<400> 4736

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caaaaacaat ggctaaaccc acatcacgaa atgaccgatt tgccctttc ttcataaccc 120

taattttcct gatcctaacc gtttccaaac cggtcgcctc tcaaaactgt ggctgcgcct 180

ctgacttctg ttgcagcaaa tatggctact gtggtacgac cgatgagttc tgcggcgagg 240

gctgccagnc angaccttgc cggagcagtg gangcggtgg agatcctgct gtttcacnan 300

aaggaacggt gacacctgac ttctttaact ctatactaaa ccaaagaggt gattgtcctg 360

gcaaaggatt ctacactcac gacaccttca tggccgcagc taattcttac cctancttcg 420

gtgcttccat ctccaaacnc gaaatcgcng ggtttttcgc tcacgttanc caagaaacaa 480

ggttc 485

<210> 4737
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-A9

<400> 4737

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ccttcatgtt ccgttaccgt taacggctgt ttttttttaa tctccggtga ccgttctttt 120

tctgattcca ggtgttgcca gctgtttttt tttttgggag atatttttt taattccttt 180

taaagttagt tataagtcag ttttgtctgc ttggattttc atttataaaa caaggtggaa 240

ttaggtttct tccgatagag aaaggggctt gattttggac aaaggcacgt gtcttagtct 300

tttattcaag cttcgatcta taagttatga tttgggtttg gttttgagtt ctccaatttt 360

agtcncanct ctgtggttgt tgtaactggg tttgtgatgg aacc 404

<210> 4738
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-B11

<400> 4738

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acgcgtccgc acttccccaa tctctagatg acaatctaac gatacagttc cttttagatc 120

gattaccaaa tacaaaggat caatttttct tacatgaaca ctctgttgta atggcagagg 180

agaatctaga actgagtctt ttatgtacag agagcaacgt tgatgatgag ggcatgattg 240

ttgacgaaac tccgattgaa atttcgattc ctcagatggg tttttctcaa tcggagagtg 300

aggagattat catggagatg gtggagaagg agaagcagca tttgccaagt gatgattaca 360

tcaagagact tagaagtgga gatttggatt tgaatgttgg aagaagagat gccctcaatt 420

ggatttggaa ngcttgtgaa 440

<210> 4739
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-B12

<400> 4739

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aatctcgagt attatggaga ttaatgttga tgaagaagct gggatcatca aagaagaaac 120

agttccactc ctggatgatc aaaatcgaaa tcgggactta cctgacatag aaaggaacac 180

tatgatgcaa aaggcaatag gtaagacttt tcagacaaca gctaatctag ctaatctttt 240

acctacgggg acagttcttg cattccagat tttatcgcca atttgcacaa acgttggacg 300

ctgcgatcta actagcagat tcatgactgc gttgctagtt tccatctgcg gattctcttg 360

tttcatactt agcttcacag attcttacaa ggatttgaat ggtagtgtct gctatggatt 420

tgcaacaatc caagggttct ggatnattg 449

<210> 4740
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-B2

<400> 4740

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gtggtgcggg tgctggtggg ttctcgtacg agtatggggc tcgtgattca gggtttggag 120

tagttggggc tcagatgaga catgttcagg cccatgggcc gagaccatcg gttaatgggt 180

tttcaagaga agtaggaact acttttgatg atggtttagg gttggatttg catctcagtc 240

ttgcacctgc tggnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnaattccag tgaaaaaaaa aaaaaaaaaa gg 392

<210> 4741
<211> 475

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-B5

<400> 4741

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ggctttaggc tccccagatc tctaatcgcc gcagctttaa gaaatggaga ctttcctatt 120

cacatctgan tctgtgaacg aaggacaccc tgacaagctt tgcgaccaga tctctgatgc 180

agtccttgat gcctgccttg agcaagacnc tgatagcatn nttgcttgtg anacatgcac 240

cangaccaac atggtcatgg ttttcggtga gatcaccacc aaggctacga ttgactacga 300

gaagattgtc cgtgacactt gccgttccat tggattcatc tctgacgatg ttggtcttga 360

tgctgacaaa tgcaaagtcc ttgttaacat tgaacaacag agcccagaca ttgctcaagg 420

tgttcacggt cacttcacca aacgtccaga agacattgga gctggtgaac aaagg 475

<210> 4742
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-B6

<400> 4742

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ggtcggattc tgtttgggaa aagaagcttc cggagaatta tcaggatctg cttgatttat 120

tgccgccgga gaggtatcat agtctcncga agaaagatat cttcgctgtg ctttctcgtc 180

caattccttt tgatgatgat aataaggaag tatggattga tanagttaca ggacgagttt 240

gtatggcgat ttctgctaga ggaatgtcta ttactggaat tgaagaccgg agatattgga 300

actggattcc aacggaagaa tctaggttcc atgttgtagc ctacttacag cagatttggt 360

ggtttgaagt tgatggaaca gtgagattcc atctcccanc tggtgtanac tctctatcat 420

tcagaatcca tctagggaga ttcacaana 449

<210> 4743
<211> 457

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-B8

<400> 4743

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acagccttta ctttaaacta acactctcaa gatgcgtgaa attgttcata tccaagctgg 120

tcaatgtggt aaccaaattg gtgccaaatt ttgggaagtc atctgtgatg aacatggtgt 180

agacccaact ggtacatatc atggagattc agatcttcaa ttagaacgta ttaacgttta 240

ttacaatgaa gcaactggtg gacgttatgt tccccgtgct attttgatgg atttggaacc 300

tggtactatg gactcagtcc gtgccggtcc attcggtcaa atcttccgtc ctgataactt 360

tgtctttgga caatctgggg ctgggtaaca attgggctaa aggtcactac actgaaggtg 420

ctgaacttat tgattcagta cttgatgttg tccgcaa 457

<210> 4744
<211> 337
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-025-Q1-E1-B9

<400> 4744

gatgatgtat acattgcacc tgctcaggtt gttactcaag ctgcttttgt accggaagct 60

ccattaacca ccacagatta tccagcaatg ccagttgctt agagagcctt ttcgttttct 120

ggtttaaaac ccaatgggga tggttctttt tttgggacag tactagtttt ctcatgttat 180

tctaagttaa tacttaaagt tctggaggtt gaattacatc aaggatatga atgtatgttt 240

ttcgttatct tttgtttaaa ttttatttat ctattaacga tttgtctttt tttaattaga 300

aaatttgtgt ttatcgaaaa aaaaaaaaaa aagggcg 337

<210> 4745
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-C11

<400> 4745

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cgtgggtttc tctatcttta actcccttca cacctctccc tctctcttct tcatatctct 120

ctctgtcaca atagtgtgat gatgcaatga gaatggagtt gatttcagtg attttcttct 180

tcttttgctc tgttttgagt tcctctgctt taaactctga tgggttggtt ttgatgaagt 240

ttaaatcctc tgttcttgtt gatcctctgt ctttattaca gacatggaat tacaaacacg 300

aaagtccatg ttcttgcaga ggaatctctt gtaataacga ttctaaagtc ttaactttgt 360

ctcttcccaa ttctcagctt cttggttcga ttccttctga tttgggttct ctcttaacac 420

ttcaaagtct cgatctttcc aataaatcct tcaatggg 458

<210> 4746
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-C12

<400> 4746

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gtttcttttc tctttctgcg atcgatctct gaaaactcat aactgttgtt taatcgtgaa 120

gatggcatca aacggatctt tctctgctca gagaaacgca aacgctagaa caacgatgaa 180

gagaagaagc gacaatcgcg gttacggtgg cggaatcgga ggttatcaag aggagacgaa 240

ccgttacgcg ccgccgcaaa aacgtttcag atcacaagcg caacagcaat tccgatctgg 300

tcataatcct ctgtatcatc atcatggtag taataataat aacgtgtcta nggtttcctc 360

tcaatcatat aacaattgcg gtgttgatgt gaatgcttca aatc 404

<210> 4747
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-A10

<400> 4747

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tttcgcaaaa accctatgga gctcctccga tccaacttgt ctagggttca gatccctgaa 120

cctactcatc gcatctacaa gcatgagtgt tgcatctcct tcgatactcc gagatccgaa 180

ggaggattgt tcgttgatat gaatagtttt cttgctttcg ggaaggatta tgtttcttgg 240

aactatgaga agactggaaa ccctgtttat cttcatatta agcagactag gaagtctatt 300

cccgaggatc ggcctctcaa gaaaccgact ctgctcgcta taggtgttga tggaggcttt 360

gataacaatg agccagagta cgaagagtct tatagcataa gtcatacttc cggattttgt 420

ttcactcccg tttccctccg gttgagctaa ca 452

<210> 4748
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-F9

<400> 4748

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aagacacaac atttaccaaa gtgttcgttg gaggattagc ttgggaaaca cacaaagtct 120

ctctcaggaa ttactttgaa cagtttggtg acattgttga agctgtcgtt atcactgata 180

aatctagtgg tagatctaaa ggctatggct ttgttacttt ttgtgatccg gaagcagctc 240

agaaagcttg tgtagatcca gctcctgtta ttgatggaag aagagctaat tgtaatcttg 300

ctgcttttgg tgttcagaga tccaaacctt cttctccnat tcatggacat gtaggaggaa 360

gaggcatgaa ggtgactanc cctttcaaga cacactttgg gaccgcggct acngcnatcc 420

ttccccactt ccatt 435

<210> 4749
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-G10

<400> 4749

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cagagactaa aaaggctgtt caaacagtaa taantcttgc acatgaacac taaaccanaa 120

cgataacagg aaacaaagat acagtcagta ctcagtagtt tgagggnagc tacgggaagc 180

aagtaatact acatagggnn gnnattccag tgcttaatga tgaaacatca tcagtacaag 240

caaacgtgtt tttcatcata caccgtatca ctttcacaan tggctgcagt cattccgcaa 300

gcataaggag attgacttct cagaancaac atcaactttg cgcaaaggag caaggnnacc 360

aggagatggg ganctctcan tgctacgcct ttcatgagan atcccccct 408

<210> 4750
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-G2

<400> 4750

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ccctcgtttc aatctccgtt ttgctttgcc tatcagataa atttcttctt gctttccttt 120

ctatctcata acgataagtt gaattaatct ttgcgtctta gttcatcagt agagagagta 180

gggttttttc cgcttatttt tagggaattt cattttgttg gaggtgagaa tctctattcg 240

agtccccaag attctcttta tatccctagt ttagttgtat ggttgggttt tgattggaat 300

atcaaggggt agtttttagc taggttcact gatacttgga agatctgagt tctttgggat 360

tctgttaagt ttgtggagat ctaaaagaca cgaaatttgt agaaatctgg ttgatatccc 420

anactttaaa aggaataagg gtanatccna tagaatttga ngcgggtttt ggaaaaattt 480

tt 482

<210> 4751
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-G3

<400> 4751

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tgcgtccttc tgaggctgga agcgatgacc atgacagcat ttctcgcgag acggnttatc 120

ggtaacggat cnagccanat tctcgggacn tcnagttcta gctccggtcc gttcatttcc 180

gtttctaggg ctttcttctc ctcctccact ccgatcaaag ctactctctt tcccggtgat 240

gggatcggtc ccgaaatcgc ngaatctgtc aagcaggtgt ttactgccgc tgatgtggtt 300

antgattggg acgaacagtt tgttggtact gaagtanatc ctanaaccaa tantttcttg 360

acatgggata atcttcaatc tgtgcctaan aacaaggttg gtttgaaang accaatggct 420

actccaantg gaa 433

<210> 4752
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-G5

<400> 4752

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ttggcaagag atatcactgt gagagcagat ctttcaggag ctgcaacccc tgactcttct 120

tttcctgaac cagtgcagag attaagttga gctcaagact canagggata ttcttttgtg 180

ttgttgctgg catttcggct acttttctca ttgtcctgat gattattggg catccgttcg 240

tccttctctt cgatccctat aggagaaaat tccaccactt cattgctaaa ctttgggctt 300

ccataagcat ttatccgttt tacaaaatca acatcgaagg gtttggagaa tctgccatca 360

tcagacactc ctgctgtata tgttcaaacc ancaaaagtt tcctggatat ccctnaaacc 420

aa 422

<210> 4753
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-G7

<400> 4753

cgtccgccca cgcgtccgcc cacgcgtccg taagtagtaa ccacattttt ctcgctttgc 60

cgtcttctcc ggcgattttc agacactaat tttctctccg gttgttgcaa tcatattttc 120

tgtcggaaga tattgaaatc agaaaccggg aaaaatgact tcgtttctta gtttctccgc 180

catttcagct catccaccta ctttttccgg cgcttcattt cgtcctcgct ctttctctcc 240

ccgattgttc aagtcttgtg ttaagtgcac ttatgctgaa gctggattaa gcagcgcttc 300

atggtcagcc cctattgaca ttgtggcaga tgtcaaatcc gaaagggttg tagttcttgg 360

tgggaatggt tcgttggctc agctatctgc aaagcancaa tctccaatgg gttaaanttt 420

ttg 423

<210> 4754
<211> 168
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-G9

<400> 4754

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atccttaaca aacgtcttca aatcaaccca ccagagattt ccatatcnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnngggcg 168

<210> 4755
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-H10

<400> 4755

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ggaagccacc gcaattgaag acaaattgca gcgtggtgtc cctgaagcaa tagaatcttt 120

gaggattgca gggataaaag tctgggtctt gactggtgac aaccaagaaa ctgccatatc 180

cattggcttc tcatcnaggc ttctgacaag aaacatgagg caaattgtaa taaatagcaa 240

ctcgttggat tcatgtccga aggagcttan aagaagcaaa tgccaatatt gcaagtaatg 300

acgaaaagtg ataatgtggg ccttgattaa tgacggtacc aanctcatat atgtactcca 360

caatgattct tgaagatgtg ctgttccaag gtggcaatgn taagtgcccc tgcnaaaaac 420

tccngctgcc ggggttgcnc cctttcca 448

<210> 4756
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-H12

<400> 4756

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ttcgcatgct taaactctga gagaagaaga tgactatgac ggaggagaaa ccaacttccg 120

acgggaaagg angttggggt ttccttcaag attcaatttc gtaactcaag cgggtcacan 180

gaaacgccgc tttaaattgc tggctaactn ctnccggttt tcaatcctng ggangctncc 240

tcctccttcc aacttccntc cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnttggg gtaataaacn ggtcctcaac 360

ggtgaatggg attngggtca aaaaatcaac aatccggact cccttctccc ttcaagtttc 420

atccggttgg ctaagtcctt tccntnccta actaaaacga aagatttgaa gccttgatcc 480

cttccngaga aaactc 496

<210> 4757
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-H2

<400> 4757

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taaaactaat aaagaagaag aagaaaacag agcaattaaa gtccttaaat cttcttcttc 120

tccaattcaa tggctcttcc gttgccattg atcttcctta tcttctctca tttgttcgtt 180

tctggagtta gatcaacgag cttcattatg gngaacaaat gcgaatacac agtctggcct 240

ggacttttat caaacgccgg agttccacca cttccgacga ccggattcgt tctccaaaaa 300

ggcgaagaac gaacaatcag cgctccaact tcatggggag gaagattctg ggggagaact 360

caatgttcca ncgacancga cggaaaantc acttgtctca acggngattg cggatttggt 420

aacctcgaat gctccnggtt cnggagcaac accaacaagc aacaactaac cgggaaattt 480

ttccccaa 488

<210> 4758
<211> 494
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-H3

<400> 4758

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acacaacttc tggagtttga gtctcgggtt gatgctgcgt taactagaaa gaaagttgac 120

atccaggaag cccttaaaaa ccctccctgc atacagaaga ctcttaggat ctacgttttc 180

aactcgtttg ctaaccaaaa caacacgatc cctgggaatc ctaatgctga cccgccaaca 240

tggactctta aaattattgg taggatactg gaagatgggg tggatcccga ccagccaggg 300

tttgttcaga aagcaaaccc attgcatccc aaattctcgt ctttcttcaa aagggttaca 360

gtttccctgg atcagaggct gtatcctgag aacccattga tcatatggga gaatgctcga 420

ttaacctggc tcctcaaggg aaggctttga naataaaaga nggaaaggga atccagggag 480

ttttttttt tgcc 494

<210> 4759
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-H4

<400> 4759

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gacccaaagg acacgtttgt gtcgatgtgg acttttgctc acaaggagag atcacaacaa 180

ggaccagtgg ttagcattga ggaagctttt gataagtact gtcaaggttt atcagcttac 240

ggtccttatc ttgatcatgt ttagggtat tggaaagctt accaagcaaa cccggatcag 300

attttgtttc tcaagtatga gacaatgaga gctgatccat tgccttatgt gaagagatta 360

gctgagttat gggttatggg ttcacgaaag gaggaagaag aaggaaatgt tgttgagaaa 420

gtantgaaac ctttgtacct ttgagacttt gaanaanctt gaanctaacc aaaaaaaggg 480

g 481

<210> 4760
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-H8

<400> 4760

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tgacggtcgc ctcatcattg acttcatcgg tacttctctt tatttatgtg taaattgact 180

gttttggcgc agttttgtta ggttaaattt acataaaagc attctaattt tgtgtgttct 240

gttcactgaa ttcttaggtt tcttatgtca aatctttctc tgtttttcta ttttcttgaa 300

cagcaagtta acattgtgaa acctcaagtg atgctccaaa tttggttttc ctttgcagct 360

gaaattttgg gggcttccnt aangtgcctc ctaacttcgg atcaacaaat gggaaaaaaa 420

ccccnt 426

<210> 4761
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-025-Q1-E1-A1

<400> 4761

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gatttttaag agttacggca gtggtggcgg aggagtgcgc cgtagagacg cgactagtga 120

aagaaaacct aactcaattc gcggcggaga tgaaaattcg tttccagatt gagtttgtgc 180

tgatgaagac ttttgagatg ttatctttca aagcgattag gtttgttgag gaggagctta 240

catcggaact ccctcaccgt ttctcggcaa aaaaactcaa acctttctct ctaacttcac 300

cgattttgag ttttaaacca acggttaagc tcaattccag ttgtcgcgct caattgatcg 360

atacggttca caatctcttc atcggagttg gagttggact tccatgtacg ggtaatggat 420

gtggtgataa gata 434

<210> 4762
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-024-Q1-E1-F8

<400> 4762

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ttacagaagg tgtacaagag ttacagaaca agaaggaact tagcggattg cgcggttgtt 180

gttgaggagc tctggtggaa gactctggat gctgcagctt taaatttgag ctcagtcgcc 240

ttctttgaag aagagaaaca tgaaaccgcg gtttcgaagt gggcacgagc taggacacga 300

gctgctaagg ttggaaaagg attgtcaaaa gatgaaaaag ctcaaaagtt agctcttcag 360

cattggcttg aagctattga cccacgccat cgttatggcc acaacttgca cttctaatta 420

aa 422

<210> 4763
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-023-Q1-E1-D11

<400> 4763

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ctttcagctc actcctcctg gtgatcaaca aacagttagc actagcacag gagaaattac 120

acatcatgaa gagaagaaag aggctattga tcaaattgta atggctgact ttggcgtacc 180

tggaaataga gctgttgaag aaggagctgc agaggttggg attccgagtg gaaaagctga 240

agttgtagtg tttgatgacg cggtgcacag tttccggaac gtattccaga accaagttga 300

gataaagctc atctttttcg gttgtagaga agaaacaatg tttcaaagac acaacatttg 360

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ctttct 426

<210> 4764
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-D12

<400> 4764

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atatgatccg gagctccgtt tagttttcga gctcgctacc gattccgagt tatatgagct 120

tgagaaaatc ctttttggtc ccagctactt cagccctttg ctgaaatcaa tcccaaacaa 180

aggaggaggt gaccggctta tgataggcca agacattgaa gtgcgagatg gttttatcga 240

agctcttgaa tcgagattct tgtttctagc tgcagatgct cgttcaacac tcaggggttg 300

gaggccttca tacagaaacg ttttacttgc ggtgagaaat aatttgaata ttccctgctc 360

caaccaantg ccaaccgaaa gacctagaag cagagatttt tccttaacct gtcgacaant 420

tccccgaagt 430

<210> 4765
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-023-Q1-E1-D2

<400> 4765

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tcaccagtac catatctctt tggtggtctc tttttgcttg ttttgcttat agctttggca 120

ttactctcat tggtctgcac acaccaaaaa ccttcttcct ctagcaataa caatcatatg 180

gatgaagaag acgatgtcgg tgacaaggac gctaagccta ttacaagaga gtacttacct 240

aagatcgtgg tgattttggc cggagacaat aaacctactt gcttggctgt tccggtcgtg 300

gttcctccac ccacttccat ttttcgttgt aactgtgaca atgttactgt catctcaacc 360

taaccattaa catctttttc ctcctttgcc gacagaaaga ttaagagatt tcgacttttg 420

taataatcaa cggcaatttt gtaacaatcg ata 453

<210> 4766
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-D9

<400> 4766

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tacgacacag atgttacgac atggagtcca acaggtcgtt tattccaagt ggaatacgcc 120

atggaagcag tgaagcaagg atctgcagca attggactca gatctcgttc tcatgtcgtt 180

ctcgcttgtg ttaacaaagc tcaatcggag ctttcttcgc atcagaggaa gatctttaaa 240

gtcgatgacc atatcggtgt tgcaatcgct ggtctcacag ccgacggtcg tgtattgtct 300

cggtatatga gatcggaatc gattaatcac tcttttactt atgagtctcc tcttcctgtt 360

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acgaccctat ggt 433

<210> 4767
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-E11

<400> 4767

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ggttatatta tatatttaca cttatgcaca cggctgtctc aacaccaccc gatgatcctg 120

tcaaatgtgt gtcaggaaac acgaactgta cagtcactaa ctcatacgga gccttcccag 180

acaggtccac atgtcgagcc gccaacgtgg catacccaaa aactgaagcc gagcttgtct 240

ctgtcgtggc tgcagccact caagccggac ggaaaatgcg tgtaacaact cgatattccc 300

atagcattac taagctcgtg tgtaccgacg gaaccgaagg tttgttcata agcacaaagt 360

ttctaaacca tacggtacaa gccgatgcaa cagccatgac catgacggtt gagagtggca 420

tgacgcttan g 431

<210> 4768
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-023-Q1-E1-E4

<400> 4768

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gcgttatcga aaaacagtaa cagtaacagc tttaacaaga agaaagtttc gtatatctca 120

gtcccttctc agatcataaa ctctttatca tcttcctcat tacaatctct tcttgtttct 180

cccaagaaat catcaagaag caccaacaga ttcagcttct cttataggaa ccctagaatc 240

tggttcttta ctctcttcct cgtctcactc tttggaatgt tgaaactcgg tttcaacgtt 300

gacccaatct ctctcccttt ctcacgttac ccttgttcaa cgacccaaca accactaagc 360

ttcgacggag aacaaaacgc tgcatcccat cttggtttgg ccaagagccg atttgtctac 420

tgggtcatcg aattcgaatg cgaatataca a 451

<210> 4769
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-F1

<400> 4769

gggagaagag tggtaccgaa gagagtgagg ttgaagagaa gaaagacaat ggtagtagcg 60

aagagagtga ggttgaagag aagaaagaaa acagaggtat agacgagagc gaggagagta 120

aagagaaaga tatagatgag aaagcgaata ttgaagaggc aagagagaat aattacaagg 180

gagatgatgc ttctagtgag gtagttcatg agtctgagga gaagactagt gagtcggaga 240

acagtgagaa agtggaagac aagtcgggta taaagactga agaagtggaa gattctgtta 300

tcaagagtgt tttgcctaac acaacagata atggggaaag cagtagtgat gagaagagta 360

ctggttcgtc ttcaggtcat gaatccggat tccttggagg gaataaaatc tganggtgaa 420

tctatggaga agaatgagtt gttggagaan ggat 454

<210> 4770
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-023-Q1-E1-F11

<400> 4770

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ttattagatt atcgtgatgg ccttagctaa agagttaatg ggttatcctc tcatcacaga 120

aaggtcatca cttgtctcgt cggcgtcgca tttcaagaag aggacacagt caacacagtt 180

ctcgatcaac ccttttgacc ggagaccaag aaaaaccaaa tccggcgtcg ttgcagccat 240

cagcgaggat ttggtcaaaa cgctgcgttt ttccacaacg accggagaca gaaagagcga 300

agaggaggag aaagcggcgg tgaagttcaa ggtgagagct gtggttactg tgaggaacaa 360

gaacaaggag gatttgaaag agactcttgt taagcatttg gatgcttttg ctgataaaat 420

tggtcgaaac a 431

<210> 4771
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-F12

<400> 4771

gcnagcggac aactgttgta attcactgca attccatgaa gtcgggagca tcagccgcgt 60

cgccaacggc gaaaagcttc aattttggat cttccagact cttagccttg gcgcagcagc 120

tgcgtgtata caagccgccg ctttcgtcat ccttcgacga gagggaagag ctgcttgcgt 180

acaaggaaag caccaggaaa tcgataaccc acgttgggtt tcaggaatct atggctccgg 240

tgaggttcag accgaagaaa gctgctgtct tgatatgtct cttcgaagga gacgatggtg 300

atttgcgtgt gattcttact aagaggtctt ccacattgtc tactcactca ggagaagttt 360

ctttgccaag gtggtaaagc agaagaacat gataaggatg atgggattac tgcaactaag 420

agangc 426

<210> 4772
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-F4

<400> 4772

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ggacactttg tgcctggtct ctcacttgct cttcttggtc tttggcatct cttcaacacc 120

ataagatctt actgtcttaa aggccctgaa gctttctctg caaaattctg gttccctttc 180

cctaaactca aacatcttga gcttatcttg attctcttct tctccttcct ctccatcact 240

ctcctcaccc tagatttccc taatttcaac ttctcctctc tcaaaccaga caacctagaa 300

catgcttcca tgttcctcca cctcattatc tttgcgtgtt tcgctctctt ctgcgaacta 360

acccttttgct canatntcct ctccggtcta atcggagttc ttctgcctct gtctcgctca 420

agaactcctc cttcctcant ttcaatccac 450

<210> 4773
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-F9

<400> 4773

actgtttacg ccgnccgtac cggtccnaaa attcccgggn anaaattgga cagaacatat 60

caagcatgta atatacagaa gccgacaaat tgcaaaattt acctaaaccc catcttacac 120

caccgtcaga ttctgatgta agtattatca aagctcaaga acaatcacat catcagaatc 180

taacttatat atcaaaggtc cagaattttc tccattgaag ctggattcta aggaaagtta 240

tcaaaagttt tgagagcttt ggatagtgaa gctcaaagaa ctaaacaatg ggcttcagag 300

tttgtgttat tgtcgtcttc ttgggttgtc ttcttctagt ccctgagaaa acaatggctc 360

aagaaatgaa acgtgcatcg atcgttatcc aaggagctcg acgagtttgt gagaccgatg 420

agaactttgt ctgtgcgaca ttggactggt ggcctcatga caagtgcaac tatgaccaat 480

gtcc 484

<210> 4774
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-G12

<400> 4774

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ctgtaaaaat caaagctttt tggaatcttt cttcggcgag atatttcttc accggcgcaa 120

gcttctcttg agcgtgattc atcactgggt ttgcattttt tcctggtggg tattcttcaa 180

attgttcaaa gctccgacct tttcttcctt agaatctgat tactggaatc ttgaagctgg 240

agagactcga gtttatatgg tttcaagcat cgttgagtca gagggatgat gtgaaagtgc 300

tagagaatgt gaatatggtt gtagataata acaattacaa gacgcagatt gagtttgcgg 360

gatnatcagt tgctgcttct tcgaatccat ctacaaacac tcagcaagaa aaatcagaat 420

cttgtacaga g 431

<210> 4775
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-G2

<400> 4775

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atacttttag caaggctcta gcaaatgcta gagatgttga atttgaccgc tcagatgtgg 120

agggaaatgc ccaccctgct ggtccacatg ttcggatacc atttgcttca ctatttgata 180

ctctcggcat gtttttagct gatgagggcg ccgtcttgct cctctactca ttgttgcaag 240

ggaattccga ctttaaggag tatgtgttgg tgcgaactga tttggatact ttgttgatgc 300

ccatcctgga gacgctgtat aacgcttcaa agagaacatc atctaatcaa atatacatga 360

tgctaattgt acttctcata cttagtcagg attcatcctt caattcaagc attcacaaga 420

tgatactgcc aancgtgcca anggtacaag gacc 454

<210> 4776
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-G3

<400> 4776

gcggggaata ggatcgaagg gctctttccg atacttaata gtagtgggaa gccttgtaaa 60

caaggtgctg tgttgggttt gtctattcaa tacactccaa tggaaagaat gagactttac 120

caaatgggtg ttggttctgg taatgagtgt gtaggagttc ccggtacata cttccctttg 180

aggaaaggcg gtagggttac tctgtatcag gatgctcatg ttgatgacgg tactcttccg 240

agtgtacatc ttgatggtgg gattcagtat agacatggaa agtgctggga ggatatggct 300

gatgcaataa ggcaggcaag aaggttgatt tatatcacag gttggtcagt tttccatccg 360

gttangctgg ttcgtcgtac caatgatccc accgaaggta cattaaggga gttgcttaaa 420

gtcaaatctc aagaangtgt taaaatgttg 450

<210> 4777
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-D10

<400> 4777

gcncacgcgt ccggttcatt cgatctatag agacgaaaca aaaagagaga tcgtacgcaa 60

aagtttccga tatggctcgc tcgtttggag ctaacagtac cgttgtgttg gcgatcatct 120

tcttcggatg tttatttgcg ttgtcctctg caatagaaga ggctacgaag ttaggatcag 180

tgatagggat agatcttggt actacttact cttgtgttgg tgtttacaag aatggtcatg 240

tcgaaattat tgccaatgac caaggaaacc gtattacacc ttcatgggtt ggttttactg 300

actctgaaag actcattggt gaggctgcta agaatcaagc agctgttaat ncagaganga 360

ctgtcttcga cgttaagaga ttgatcgggg cgaaaatttg aggatnagga ggttcaaaaa 420

gggatagga 429

<210> 4778
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-H10

<400> 4778

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cgtgggcttt ttatcaaaat tctctctttt tcccaaaaag attcacaaat ttgttgtagt 120

ctcgccgtta agatggcgcc ggcgacggag catcagagct cgttcttgag tcgactaagc 180

cgtcgcaatc aagtggtttc caaggaggtt aaccacgagc aagagcaaag aagaactcga 240

agattttcaa aaacacgtag ctgaacgttt cgcggagctc ttacaacgtc ggattcgccg 300

gaatcttacc cgatcttcga ttcatggcta aggaanttct tgagtttcag tcaaagaatc 360

ggngttcatc gttttaaaac gaatcgtcca aattcgaaac cccgttggaa anttgtccgg 420

aatgctgatg ggtgtaagcc tgaattgtc 449

<210> 4779
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-H11

<400> 4779

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tctcacgacc aagtcgttcc tcccctaccg tcacgctcct cgccgtccaa tctctttctc 120

ccctgtcttc gccgttcatt cgactgaccc caagaaatct acccaatcag cctccgcttc 180

ggttaaatgg agtctagaga gttggaagtc gaagaaagct ttgcaattgc cggattatcc 240

tgatcagaag gatgttgatt cggttctaca gacgctttct tcttttcctc ctaaagtttt 300

cgctggtgag gctaggaaac tagaaggata agcttggcaa ancggcnatg ggtcaagcct 360

taangcttna aggnggtaat tgtgctaaaa gtttcangga atttaaggca ataacattag 420

ggancctt 428

<210> 4780
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-H12

<400> 4780

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tgatgcaggg gggaagttgt actcaataat ggagatatgt cggcttttg atcaaatatc 120

caaagagcat cttgatggan tgcgtgctgg tggtgaaaaa gtgtacaacg tgtttgataa 180

ccagcttcct gcggctctga agagactcca atttgacaag cagctagcga tggacaacat 240

ccggaagctg gtcactgagg ctgatggtta ccagcctcac ttgattgcnc ctgagcaagg 300

ttaccgtcgt ctcattgagt cttcnattgt ccccatcaaa ggccctgctg aagcatctgt 360

tgacaccgtt caangctatc ctaaaggatt cnggntcana antccgngaa attaaancgg 420

tgggaactaa aacaaatacc caacctctga aaattggagg tgncaaaatg cggcgaataa 480

aant 484

<210> 4781
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-H5

<400> 4781

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cttttgcctt caatagttat taccagaaga atccaatccc tagtagttgc aattttgatg 120

gaactgctat cactatcagt gctgacccaa gtttaggttc atgccacttt ccatctacaa 180

gcacgagtga atcgatattg aacgtaacaa gtgaagatgg attagggctt ttcgggagaa 240

taccatctca tccaactccc aagcctgaag cttcaacctc ctcctcaaga actttgatct 300

catttctcta cttccttttgc ttttgtgttt tatatccact tgttataacc ttaacatagt 360

catgtaatat ataataggca actttttcta ggctaattca agacgataag ttttttcaaa 420

aaanggttac 430

<210> 4782
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-H6

<400> 4782

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actatatttg gctttgatct tctcttgcgt ttatctgatt tgcctgtcaa gtcaacaaga 120

aaccgggttt gtctacaatg gcttcgagca agcagatctt tttattgatg ggatcgccaa 180

aatactacct gatgggcttt tgcagttgac aaatactaca gagttgcaaa tgggtcatgc 240

tttcttcaag aagccgtttg attttgatcc atcttcatca ctatcgttct atacacattt 300

tgtgtgtgcg cttgtgcctc ctaagttggg agctgatggt ggccatggga ttgtctttgt 360

tgtatctcct tccattgatc tctctcatgc atacgcaact cagtacttgg gggtcctcaa 420

caacttaaca aatggggact cctctcanat c 451

<210> 4783
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-H7

<400> 4783

catcctcctc acatggacac acgtctctct cacgctgact cagcccaccc cgacgagcta 60

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gacaggttga ggagtattgc tggtaggatt cagacagtgg taggtgatct agcaactcaa 180

ggagaaaggc ttcagtctct gctaagctgg cgtgatccgc gtgcaacagc gctcttcgtc 240

ttgttctgct tgattgccgc agtcattctc tatgtgacac ctttccaggt tgtggctctt 300

tgtattggga tctatggcct gagacatccg anggtcagat acaaactacc aatcccgttc 360

ctctcaattt cctcaagaaa ggcttcctgc aagaaactga ttggatgctc tgacctgcaa 420

aaaactgctt ccaataccga nga 443

<210> 4784
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-023-Q1-E1-A11

<400> 4784

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aaaacagtga gatgtgttcg gtggggttat gaggttaata cctcttctga tgcttgcatc 120

gacgcaatta actcctattt tcaacaggtt cttagttatg ggaggaagag gaaagtgatt 180

ctagaagcac cactctacga taaagattgt gttttgggca gcattttagc tgctcatttc 240

ctttcttcat ctgatccttc tagagctaat tcctatgttg aagctgcggc atctaatctc 300

gaacaatcta caccttatga gaaagcggtt tacgaggctg ttacttacct aatctctgag 360

gatagggatg acgacttggc ttttgaaatg cacaccaagc tacttaaaag attcccaaag 420

gacttgg 427

<210> 4785
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-A9

<400> 4785

ngttnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn ncttatacac ttactaatac agagtaacag agagagacag 120

agtggactct tcttagagta agatgggagg tgtgacttct tcaatggcgg cgaagttggc 180

gtttttttcct ccgaatccgc cgtcgtacaa gctggtcaga gatgaaacaa cggagctttt 240

tctaatgagc ccttttcccc atcgagaaaa tgtcgacatt ttgcggctgc ccacgcgccg 300

aggcaccgaa atcgtggcca tgtacatcag atacccaatg gccgtcacca ccctttctcta 360

ctctcatgga aatgctgccg acatcggtca gatgtatgag ctcttcatcg agctcagtat 420

tcacctccgc gtcaatttg 439

<210> 4786
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-B1

<400> 4786

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gagcaggaac tatgcagcga aagagattaa gtttggtgtt gaagctcgag ctttgatgct 120

taagggtgtt gaagatcttg ctatgctgtt aaagtcacca tgggtcccaa gggacgtaat 180

gttgtgattg agcaaagttg gggtgctcct aaagtgacaa aagatggtgt tactgttgcc 240

aaaagtattg agttcaaaga caaaattaag aacgttggtg ctaatcttgt gaagcangtt 300

gcaaatgcta ctaatgatgt tgctggtgat ggtactactt gtgctactgt cctcacccgg 360

gctatatttg cccaaaggat gcaaaatcag ttgccgcaag aatgaatgca atgggacttg 420

ccaaaaagta ttccatggca nttgat 446

<210> 4787
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-B9

<400> 4787

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnncaatc gaactctgta 120

tacaactctt tcctcaagtg tttctccgac aagacgaaat ctccacaatc ccaaatcact 180

gacaatgtct tctctcagac aaaccctgct ttctcctccg ttcttcgtgc ttacatccgc 240

aatgcgaggt tcaacacttc ctctactctt aaacccacca tcataatcac tcctcgctcc 300

gagagccacg tcagcgccgc cgtcacttgc tcaaaaaccc taaatttcct cctcaaaatc 360

cgaagcggcg gccatgacta cgatggtctc tcttacattt ccgacaaacc atttttcatc 420

ctcgacatg 429

<210> 4788
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-C1

<400> 4788

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aatcaacagc agattagctc ttgtgatgaa gagtggaaag tacactcttg gatacaagtc 120

tgttctcaaa tcccttcgca gctccaaagg taagctgata ttgatatcta gcaattgccc 180

accgttgaga aggtcagaga ttgaatacta tgcgatgctt gctaaagttg gagttcatcg 240

ctacaatggc aacaatgttg atttgggtac tgcttgtggt aaatacttcc gagtttcttg 300

cctcagcatc gttgatcctg gtgattccga catcatcaag acacttcctg gagatcagtg 360

attctgattt tgatgatttt gccatgttgt tctctatgct tgattatgct ttgtgttctt 420

caaagactaa tgttanattt c 441

<210> 4789
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-C11

<400> 4789

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ccacgcgtcc gcncggatct ccatcattcc cctgacaacg tctatggatc acctttgagt 120

ggggtgtcat ctcttgccta tgatgaagct ggagtcaaga gtaagattcg ggaacttgag 180

gtctcgctgc tgagtggtga tacaaaagtt gaagaattct caggttttag ccccgctgct 240

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gtgctggtgg aggctgctcg ggcagtcgct gatggggatt tcgctacagc gtatggattc 360

cttgatgtct tggaacagat ggtgtcagtc tcaggcagtc cgatccaacg gctaggcact 420

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cttgaaatgc aatgaaccaa cgg 503

<210> 4790
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-C5

<400> 4790

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tgctatccgc cgccgtagct ttgctcttcg tagccgccgt cgccggaatc tctgcnggag 120

cttcaaaagc caacgaaaaa cgaactcnan ccccgtcgtc tcacgccgtg ctaagatcct 180

catgcagctc cacgcgttac cctgagctct gtatctctgc cgtggtaact gncggcggcg 240

tcgagctaan gtcgcaaaaa gatgtcatcg aggcatcngt gaacctaaca ataaccgccg 300

tggagcacaa ttacttcacc gtgaagaagc tgatcaagaa gagganagga ctgacgccgc 360

gcganaagac ggggcttcat gacngtttgg agactattga ngagacnctg gacgacctca 420

ttaaacggtg ggaagatttc catttgtntc caa 453

<210> 4791
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-D1

<400> 4791

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atttgatgga tcgccttctt ctgttgccgc cactcaacaa cattcgatga gatttgggat 120

cgaccatcaa caggttaaga agaaacgagg tagacctagg aagtannnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nctcctactt cgcctcttcc 240

ttctgcttct aattcttacn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn aactcttccg atccacctgc taaacggaac agaggacgtc ctcctggctc 360

cggtaagaag cagctcgatg ctttangagg aacagganga gttgggttca cgcctcatgt 420

cattgaggtt aaaacaggag aagacatag 449

<210> 4792
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-H1

<400> 4792

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gcgaaatcat caagacaaga agaaagaagg agttttagat ctggtactga aacgaccttt 120

acggtggcta agaatgctca tcgaagagct tcactggagc ttcttcttcg gtgtgattat 180

cgtctatgga gttagccaag gacttggtaa aggtctcagc aaagtcagca cacagtacta 240

cttcaaagac gagcagaaga tacaaccctc tcaagctcag atttacgttg gtttgattca 300

gattccttgg attattaaac ctctccgggg aatggttgac tgatgttgtc ccaagttttg 360

ggttacaagg agacgaaccc tatttcaaat taanccggtt tttcctgcta tgattctcca 420

atgatgggtg ttatgggctt cacaacgnat cctgcatcct tgcaactggg cnttgtccct 480

g 481

<210> 4793
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-F11

<400> 4793

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ctttctcacc gtccaagcaa ccgtcaatca tccttcacat ttcatcccgc cgtcaacacc 180

aagcctaaat ccgttaacct cgtcacggct gtacacgcgg ctgagccagc tagaaacgct 240

gtttcagtca aagaatccgt ttgcgtcttc ttcgtctggg tgcattgaaa tggactccaa 300

gagaagctgg gaaactgaag aaaggntcct ggcaaacttt ctggattaac cctaaaggcc 360

aattgaagcc ttgaagtcct ggtggcctaa aaaacgaata agaagggctt tttcctcccg 420

aaatggtggt ttcggcccgg agaaagccta agggaatcct tggaaagaag aanaatttgg 480

gttgaatgc 489

<210> 4794
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-F2

<400> 4794

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caccacagga ggaacgatct ccgtcgcttg acgattgcct taagctattg aaaggggaga 120

gagacganca gaggctcgcc ggtctacttc tcgtcaccaa attctgtaag aacgatgaca 180

tcgtttctct caacaaggtc tacgaagccg ttggtactca ctttctcgac cgtcttttcc 240

gtactggtag tggcantggc gatggggttg ataatcgtga tgtgtatctg canatatcta 300

tcactgttct tgctgcattc tgccgtgttc cgggagatag cttcttcaga agagatggtc 360

tccagaattc cccttattct ccaannntaat gtccaaagga ataactacaa aacatgctcc 420

aagattgcta agaaccttct gtattggngt caacggc 457

<210> 4795
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-F5

<400> 4795

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tcctcagagt gtgagttcaa atcatggctg gagaggatta agatttgtgt atgataaagt 120

taggattggg gaagagagat tgagagtctc aaggtgtgag agttttcttg agatttttgt 180

tagagaagga tgtgagatgg tggagatgag tgttactgat catgataagt ttgctgctga 240

atcacagttt ataactcata ctcttggtag gcttttgggg atgttgaagt tgatatcgac 300

gccgattaat acgaaagggt acgaggcgtt gcttgattta gctgagaata tttgtgggga 360

tagttttgat ttgtattatg ggttgtttgt gtataataac aactctttgg aggtgttaga 420

gaagattgat ttggcttcga ngcttgcgta aggaccttt 459

<210> 4796
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-F6

<400> 4796

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ttgagtggtc atgtctgctc ctatctattc tccgatagat atgcaagaga ttgttcaaaa 120

tcctcctggg tttgatacgg aaccagtccc aatcagtact taccgagaca atgaacctgt 180

cccgctttca acttaccgag aaaatgattc agatcatctc gacgccactc agcaagagaa 240

cgatgacttt tgggaaaacg gtttcagtag ggaagaggcc attgaagatc cagagccttc 300

tcaggcaaag gaaaatggaa agagaagtgt agacaacagc gctttcactc atggggaaac 360

tgatctcaat caacttcctg cgattcctcc ggtttcaact gggtcaaggt ttgccgtatg 420

cccctgttga ttggncaaac cctgggtgan gttatggact tggaga 466

<210> 4797
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-F8

<400> 4797

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aagctgtgtt gcaattgagc attcacgagg aaagaatcag gaagaaagcg tttgtcaccg 120

tttctcgatg tccaggtgtt acttcgataa caatggatga caaaaccggg aaaatgacag 180

tagttggtga agttgatgta ccggttatcg tgatgaagct aaggaagcta tgtaacacag 240

agcttgtttc ggttgaagtt gttaaaccac ctgagaaaaa gcctgaacca gagaaaccgg 300

ctccacctaa accagctcca gctccagcta aaccggctga aattgttgcc tggccggttc 360

agatgaacaa cccttaacaa tacaatcctg cctatgcaaa ttcttactaa caaccatatg 420

gggaactcta gatttgtaac ggacgaatcn aattgtgtga atta 464

<210> 4798
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-022-Q1-E1-G1

<400> 4798

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atttcacatt tttttcaaaa ataaacactg cttaatgcgg attggttgtt cacaaaagga 120

ccaaaaaatc gtagaagttt ggattgattt cactatggag gaagtagcag ctaaggttga 180

ggaagaaact gtggaaacca atgtagatgc agtgaaagag gacaatgcaa ctatagctaa 240

tgaaagcaga agcccagaga gtgtttctgc agtgtctgtg gtgtcaaatc gagctgcttc 300

tactaaaaag aaaccagtta ttagttcgaa tttaataaag ccaactgcgt cttcttcatt 360

acgggtctcg ggtactacgc ctgtgactat caaggagaaa taatactgga gggagttaca 420

agagaattaa ctggtactcc taaaggtctg cctaaacaaa tg 462

<210> 4799
<211> 493
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-G10

<400> 4799

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agaaggattc caagctgcta aagatttttt gtcaagattt ttaatttaag tttcctggag 120

gaggagatca cagatcttct tttcatatga agagatcttt ccttctcttg tatgtgctcc 180

tggtacaggc cttctatggg gcttggtgta ntgttggaga aagcctgcat tgtgaatatt 240

ccaatttagc gagtcttcac cggcctcaca gcgtatcgat tacagagttt ggancggttg 300

ganatggtgt gactctaaac actaaagcct ttcanaatgc tctgttctac ctcaattcct 360

ttctccgaan aaagggcggg ggccaaacct ttttgttccc gcctgggcca antgggctta 420

accggggagt ttccgacccn taaacnagtc cacctcancc cttaangggc tnagaataaa 480

agggggggcaa acc 493

<210> 4800
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-G2

<400> 4800

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ggtattaagg gtttaacgaa gcttttagcc gacaatgcgc ctagttgtat gaaagaacag 120

aaattcgaga gctattttgg tcggaaaatc gctgttgatg ctagcatgag catttaccaa 180

ttcctcattg ttgttggaag aactgggact gaaatgctca ctaatgaagc tggtgaagtc 240

actagtcatt tacaagggat gtttaatcga acgattcgtc ttcttgaagc tggaattaag 300

cctgtctatg ttttcgatgg gaagcccccg gagttaaaga gacaggaact ggctaaacgt 360

tactccaaga gagctgatgc aactgcagat ttgactgggt gcaattgang caagaaacaa 420

aggaagacan ttgagaa 437

<210> 4801
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-G3

<400> 4801

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tttaaccctt gatcatcacc gattcaatca attcggaatc acaatttcaa atcgagagaa 120

tttcaatttc tcttgtaaaa ccctaaatta tgtacagcaa tttcaaggaa caagcgatcg 180

agtacgtgaa gcaagcggtt catgaagaca atgctgggaa ttacaataaa gctttccctc 240

tatacatgaa cgcgcttgag tacttcaaaa ctcatctcaa gtatgagaag aaccctaaga 300

tcagagaagc tattacccag aaattcaccg agtatctccg tcgtgctgag gagatccgtg 360

ctgttctcga tgaaggtgga tngggtccag gatctaacgg tgatgcaacc gtcgcaacga 420

aggccaaaac taagcctaaa ggatggagaa agtggtggta aagaaggg 468

<210> 4802
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-G5

<400> 4802

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aacaatggcc aaaaccagag ggtcttgttg tctcgtcaac gctctaatcg ctatagcttt 120

tttggcgaca gcccatttgt gtgaagctgg cttgtctcag aaagaacagg acaaggtctc 180

gaaattgcct ggtcagaatt ttaatgttag ttttgctcac tactctgggt ttgttgctac 240

taatgagcaa ttgggaagag ctctctttta ctggttattt gaagccgttg aagatgctaa 300

gtctaagcct cttgttctct ggctcaatgg aggaccagga tgttcatctg ttgcatatgg 360

tgaagcagaa gagataggac catttcacat taaggcagat gggaagactc cttaccttaa 420

tcaatattcc tgggnaccaa agctgnaaat aatttggtc 459

<210> 4803
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-G6

<400> 4803

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gattgggcag tgaagatgca acactttccc aatggtaaga gtactcttta caatttttag 120

atttgtgttg tcacacatat tgaaatatat atatggtata tttggacgaa aaaaaaaaaa 180

aaagggcggc cgctctagag gatccaagct tacgtacgcg tgcatgcgac gtcatagctc 240

ttctatagtg tcacctaaat tcaattcact ggccgtcgtt ttacaacgtc ntgactggga 300

aaacctggcg ttacccaact taatcgcctt gcagcacatc ccccttttcgc caactggcgt 360

aatagcgaag aggcccgcaa ccgatngccc ttcccaacan ttgcgcaanc ctgaatgggc 420

naaatgggaa ncngccctgg taaccggngc aatta 455

<210> 4804
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-G7

<400> 4804

aagaatggct acatgtcctc ctttcgattt ctcgaccaaa tattacgatg gtgacggcgg 60

atgccagagg cagagcagct tcttcggagg cacgacggtg ctcgatcaag gcgttggcta 120

cgccgtgatt cttggttttg gtgctttctt tgccgtcttc acatcttttt tggtatggtt 180

agaaaaacga tatgtgggag ctcgtcatac atcggaatgg ttcaatacag cgggaagaaa 240

cgttaagaca ggacttattg caagtgtcat tgtatcacag tggacatggg ctgcgaccat 300

actgcanagt tcaaacgtag catggcagta tggggttagt gggaccgttt tgggtacgct 360

agtggagcca ccatacaagt gctgttgttt ggtgtgatgg cgantgagat aaa 413

<210> 4805
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-G8

<400> 4805

accagtgaaa gctcctatct cttcctgagg cattgtgatc tcttgttaaa atggctagta 60

ctctgaggaa cattcatggt aacgagatct aatttgcaat ctgagtttac tggaaatgga 120

ggaagtaaga gaagaaatct tcatgatgaa acagatcaaa atgttattgc ttcagaagac 180

actgtatacc gctacttgtg tcccgtgaaa aagaccggga gcattatcgg gaaaggcggc 240

gagattgcta agcagataag gtctgagact aaatcaaaca tgaggataaa cgaggcttta 300

cctgggttgt gaaggagcgt gttgttacca tgtanttcca ctaactgagg agttgaatca 360

ttttgggaga tgatggtgaa ccttgtntgt cccgcctt 398

<210> 4806
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-G9

<400> 4806

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caaatctgtg agctattttt tcattcttgg ttttctcngt tttggcaaat tttggaggaa 120

aggaatctga acaggaaaca agaatggncg tggtcgattg gcttggtttg ggattaggct 180

ctgttgctgg agctttggtc tcggaaggtc tgaaagtttt gatttcagag gcaaagaagg 240

tgttagcttt caaatctgtg tctaacgagc tcgcatcgac gatggagtca ttgcttccgg 300

tgatcaaaga gatcgaatcg atgcaagatg gtatggaact acaagatctt aaaagacacg 360

atcgataaag ctcttttact ggttgagaaa tgttcacatg tcgagaantg gatataatcc 420

tgaaatccga agtacaccag aaaaantnag ggaatcaata ggaagatgcn cca 473

<210> 4807
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-E9

<400> 4807

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gagagatgga ggaatataga cttggagagc tgagacactt gctgacaacg gttttcctgt 120

cgggattctc cgagttcttg gtgaagccag tgatgactga cgtcaccgtc gccgcggttt 180

gctccggcct aaacgaaaca tgttctctcg ccgtctatct caccggagta gaacaagtga 240

cggtaggact ggggacaatg gtaatgatgc cggtgatcgg gaatctatcc gatagatatg 300

ggaatcaaaa cattactcac tcctccgatg gtgcctcctc caatcctcct ccaaacgata 360

attancgtta tanaaaggga tacgaaattc cttccnacgc gttttacaat aacccaagat 420

tccaatcnga naatggcccg gccaaaggga ccgttn 456

<210> 4808
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-C12

<400> 4808

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agaccattac tttttcttct cttatggcac ctaagatggc tcgcagagga ggtatagatg 120

agccttttgc atgggaaagc aaagaatttt tgaggaaact ttgcatagga aaggaggttg 180

cattcaaagt ggattacaag gtggaagcta ttgctggaag agaatttggc tctgttttcc 240

ttggcaacga gaatcttgct aagcttgttg ttaaaactgg ttgggcaaag gttagggagc 300

caggtcagca gaatcaggac aaggttagtc cttacattaa agagttgcta cagcttgaag 360

agctggccaa gcaggaagga tatggtcgtt ggagcaaggt tcctggtgct gctgaagcat 420

ctatcagaaa tcctcctcct tctgcaatgg ggaa 454

<210> 4809
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-C2

<400> 4809

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ttccaccaaa gcatcatatg ccagtgattg actcttctcc aaaacttaag cctagaaacg 120

acagaatttc accttctcct gctgctaaac atgaggctga agaggcgatg tcagttaagc 180

gtaggcaaag aacacctcct actttgccaa gaagaacgtc tttgatagcg caccagtcga 240

gacaactagg agcagatatt tcaaatatgg cagcaaagga aaccgcgaag ctacatccat 300

ctgtgccatc agagtctgaa actaattctc atcaatctcg tgttcatgct tctcctgtga 360

gtacgacgcc agagccaaag agaacctctg ttggatctgc caaaggaatg cagagtgaaa 420

gcagcaactc tatctcgtcg tcgttgtcca tgcangcatt gagctctgtg atgatgcttc 480

caccccatat attga 495

<210> 4810
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-C5

<400> 4810

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accactccca atttctccat ctcctcctca attctctctt tcctcttctc ctttatcaaa 120

aacgcagcga ttcatcactc caagccaggg ctctcgtcta cggactttgt gtaccaaagt 180

catcatacca aacatgcaag attcaggatc accaccactc tcttatctta ctcagcgaga 240

agccgctgag attgatgaga ccttgatggg tcctcttggt ttctccattg atcagctcat 300

ggaattggct ggtcttagtg tggcagcttc aattgctgag gtttataaac cggaagaata 360

tagccgggtt ctagctatct gtggtcctgg gaacaatggt ggtgatggtt tggtggcngc 420

gaagcatttg cancactttg ggatataaac cgttt 455

<210> 4811
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-C6

<400> 4811

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gacgacgaag tcgagagaaa gaaataatgg cggaggagac gatggagaac gaagagaggg 120

tgaagctgtt cgtcggacaa gttccgaagc acatgacgga gattcagctc ctcacattgt 180

ttcgagaatt ctccatcgtc aatgaagtca acatcattaa agagaagaca acacgagctc 240

ctcgaggatg ttgttttctg acatgtccta caagggaaga tgctgacaag gtgatcaata 300

gttttcataa caagaagaca ttgcctgggg catctagtcc gttgcaagtt aagtatgcan 360

atggcgagtt ggaaagacta gatgttcttg actgttcgtg caatccagag cacaaacttt 420

tccgtccngt aaggcttcca aangaatgtc tctgaaacct gaagtccagt cccntantcc 480

tctgaatacg ggaccattaa gggtt 505

<210> 4812
<211> 518
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-C7

<400> 4812

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tcgaatctct ggttttgagt tttggagaat ggtgtttttc cgcagcgtat cggcctttac 180

taggctgagg tctcgcgtcg gccaacaatc ttcactcagc aattctgtca gatggattca 240

gatgcagagc tctaccgacc tggacctgaa gtcgcagctg caagagttaa ttccggaaca 300

gcaggaccgt ctgaagaaac tgaagtcaga acatgggaag gtccaactgg gaaacatcac 360

tgttgatatg gttattgngt ggaatgagan ggatgactgg attgctttgg gaaaanctca 420

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agaaagtatt acctactgcc caatctggaa ctgaaacc 518

<210> 4813
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-C8

<400> 4813

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cattctccac tctcacacca ccaacttctg attccagatc tcaacgatgc aaagctccgc 120

cgtattctcc ctctctccgt cgcttcctct cctaaaacca cgtcggctct ctctccgcca 180

ccatcccata accaccgccg cttcttcaag cgatctaaac gtttctccaa atgttgtctc 240

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cgctactgca gttcctgaaa gtgctgaaga aggtgataac agtggtaaat tgacgaangg 420

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ctaacaaa 488

<210> 4814
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-D10

<400> 4814

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actaaacaaa agaccctagt tctctctctc tagttagccg ccgcaaanca gatcaantct 120

tcaaacgccg ttttgcctct ttggtggtcg gtttcggccg gcaccgtgag agggcctctc 180

ttctcttttt agtttttttt ttcctttgtg tcgatttttt ttagccggcg gcggctcctc 240

cttctttgtg gcttaatcaa tgagttttaa gtcgacggcg agcggnnata gttctctcag 300

atggaggttc gttggtagat ctacantggg gaactatgac tctcgacgac ggcaagcaga 360

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ggtagtggtg gctcagtgtt aaganggtac agaggt 456

<210> 4815
<211> 458
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-D11

<400> 4815

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ggaaggacat gactaaggat acaacatttg agtttgagaa gaagagaaac agacctgaga 180

gatacgacag gaacgttaca gagaatacac tcatggccat taagaagatt gctaagatca 240

gaaccgcaag ggaagccaaa catatcgaaa ataggttgaa gccaaacaag cagaagaaac 300

tcaatgacga tatgaaagaa cttgatcaga acattcatat ggtccaggct cccggggcac 360

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gattctgtgg taacaatatg atccgtctaa aagcctct 458

<210> 4816
<211> 362
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-D12

<400> 4816

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aataattcgt ggttggtgca gactggtcaa tgagcagtga ttgtcaaagg atttgcactg 180

taaattattt atactctttg ggttttgatt atgaaaccct tatggatgat caanttanat 240

ttgttattaa tacagaacat tttttaggaa tttggattgg tgatataaat gtaaataana 300

tggtcaannt tggttggtta tantgatttg tttaatcaaa naanaaaaan naaaaaaggg 360

cg 362

<210> 4817
<211> 501
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-D2

<400> 4817

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ncatagacga caagatctcg cagctggtga atncagctcc agggataccg cgtcttggag 120

ttccggcgta cgaatggtgg tcagaagctt tacacggcgt ancctacgcc ggtccaggaa 180

tccggtttaa cggnacggtt aaagctgcta ccanctttcc tcaagtcatc ttgaccgctg 240

cttcantcga ctcctatgaa tggttccgca ttgctcaagt tatatgaaag gaagcaagag 300

gagtgtacaa cgcaaggcaa gcgaatggaa tgacattttg ggcaccaaan attaacatat 360

ttaggagatt caccggtggg gaaaaaggca atnanactcc ccggcgaagg attcgattan 420

taaccggnac ttacncnggg gnntaagtta taggactaca aggtgacnct tttgacgtcc 480

ggnaaacact ccccaatcat c 501

<210> 4818
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-D3

<400> 4818

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ttttcttctt tgttctcctt ttctcgtctc ttctcataag caatggcgat gccaacccaa 120

attacaaaga agctctctcc aagtcattgc tcttcttcca aggtcagcga tctggtcctc 180

ttcctagagg ccaacaaatt tcctggaggg ctagctctgg cctttccgat ggctctgctg 240

ctcatgtgga cttaaccggc gggtactatg acgcaggaga caacgtcaag ttcaatttac 300

caatggcgtt taccaccaca atgctctcat ggagcgcact ggaatacggt aaacggatgg 360

gtcctgagct gggaaaatgc acgtgtgaac atccgttggg ccacagatta tctgctgaaa 420

tgtgccagag ccacgccggg gaagctttat gtcggtgtag gagattctaa tgttgatnac 480

aaatgctggg gaacg 495

<210> 4819

<211> 515
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-D4

<400> 4819

aactgtctcg cctggntcgt accggccccg aaaattcccg nannccnccc acgcgtccga 60

atcaacgcaa cgccgaagaa gctttttcag gggtttggtg cgttgaattt gtggatcaag 120

aaacaatgca aattcaatgc aaaaccctaa cttttacagt ttcttcgatt ccttgtaacc 180

caaagctacc attcccatct tccctcactt tacggtcatg gaatccttca ttcccgagtt 240

tcaggagctc cgctgtttcc ggaccaaagt catcactgaa gctgaacagg tttttaagaa 300

actgtgcaag tacgaatcag gagcttgttg ttgatggaga aaccggaaat gggtcgattt 360

cggagctcca aggagatgca gcaaatggtt cgatttcgcc ggtggaagtg gaagcagaag 420

tagaagaagt gaaggtagat gatttggcga ctcagagcat ttggggacaa gatgaaagag 480

atcgtcatgt ttaccggacc tgccgcggga ttgtg 515

<210> 4820
<211> 506
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-D5

<400> 4820

aacggtccan aatcccgggn ccacccacnc gtccggagtg agagagtcca tcgnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnag agaaagagat 120

cttcacaaat atgactgtga tgaatcaccg acacaagcaa tgtcattttc tcctcctcct 180

tctgatcact gtcttctctg ccgcgttgga tggtgtttct tccgagacag acgtcggagg 240

gtttgactac ggtgaagcat tgtctaaaag cttactctac tttgaagctc agagatcagg 300

aagacttccg tacaaacaag cgcgttgact tgggcgttat taacccnggn cccaaccgat 360

gggccttgaa acaaaggggg ttnganttaa gtggggaagg atatcacgaa cgcccggaga 420

aacaagttta aaatttggga ctttccgaat nggcntttaa cggngaacaa atgttgtcat 480

gggagtgtta ataaaattac ngggga 506

<210> 4821
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-021-Q1-E1-C11

<400> 4821

gaccagctat gctctccgtc gcaagacgtc tcggttcggc gacgccgtcg cttcaaaacg 60

gagcttcctt actccggttc atgagaacgg aggcaagtca gccaagacgg cggaacaaat 120

ttccctctct atcgccactc aagaagaaag aggagaaatc agagtggtgg atcgtcgacg 180

gagagatgca cgagatcgga gatcacgtac ctctgcgtga gcgtttcaca atcccgagag 240

acaatatccc caataagcgc cggaaacagc tccgtgagca gttcatgcga cgaactcgtc 300

tcgttcttaa agaatcggag catgagccat ggtgcaagaa gtacatggaa ttgtataatg 360

aggttagaga aaactgggag aggctttatt gggatgaagg atattcta 408

<210> 4822
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-H5

<400> 4822

gaaaaaactc ttgctcctgt gttgagagcc taatccaaga ttctcttcca tggcttctat 60

tttcagacct tcttcagctt cacttgattt acgaccaaag gttatttgca cgaatctctc 120

tacgaaagag cggtttgagt ttcagaagaa gagtgtgagg aaagaaagga tcaatgttag 180

gttttatagc ttgaaggcta aggcacaang atcgtcaatt gaagggatta gtgttgtaca 240

agagaaagag cttaacaaca aaaccgatta tggaagttgt tgggggttca tcatgtccgt 300

ctgctctgcg agaanctana acggtcactc cgaagtttta acaagnacat tttanggcct 360

tgaanatnaa cggaagcaaa ggctcancga caangcttcc atatanangg agcntggnta 420

aggggtangg gtcnagaaaa tgagtcngcc ttangggagg cttcaaagtn ccaaattca 479

<210> 4823
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-H8

<400> 4823

natttgatct catctttaaa ttttttgtt tcccatttct ctcagaaagt gttctgttct 60

ttttttcttt tgtaatcact aaatgcttca aaagtttgtc cacaattata tttgaaaaaa 120

atgtctgtat ctgtagcagc agagcatgat tacataggtt tgtcagagtt tccaaccatg 180

gaagcaacaa caatgtctga caaaaccaaa accagagaca ataacaacgg tctcaatttc 240

aaggctaccg agttaagact cggtttaccc ggttctgagt cgccggagcg aagtcgactc 300

aagattcttg gctctcaaca agagtactgt cccgtgtcag gtgccaaaaa ggtgttctcc 360

gacgcattaa ccgactctaa caaatgggtc ctcnctcctg gattcaatac tgncnactgg 420

gtgatgtcgg tccgggtcct gggccccgta accccggtcn tta 463

<210> 4824
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-021-Q1-E1-A10

<400> 4824

catctttgaa ggaaacagag tacatgttac agagcaatcg gaagacatga aaccgaccaa 60

gtccgaagaa gtgatgataa gccttgaaga tctggagaac aagaagaaca ttttcagaac 120

gttttctttc tctaaccatg agattgagaa cggtgtgtgg aaaagtaacc ttttcttggg 180

aaatttcgtg gaagatcttt ctcctgcaac atcagggtct gcaattacca gcgaggtttt 240

atctgcacct gctgctgttg agaattccga aactgcagat tcgtatttct cgtctttgga 300

caatattatc gatttcggac aggattggtt gtggtcgtag ctttgaataa ttgatttggt 360

gaatgtaatg tctctctctt aatggcagta att 393

<210> 4825
<211> 465
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-A12

<400> 4825

cttagcggcc canaacggtc aaanctcccg ggncgaccca cgcgtccgna ggcacttgag 60

cttttgattg aattgggctg gtaccgagcc acggntcctt aaacggcaac ttgttgacat 120

anttggttcg atgcttcana ttgcanangc tgattccctc nacgagagta cacgtcatct 180

tgcgattgag tttttggtta ctctggctna ggcgcgtnan cgtgcccctg cnatggtcag 240

gaagcttcct caagtttatt gacaggttgt ttgctgttct tatgaagatg ctcgaggata 300

ttgaggacta tcctgcttgg gaaaaccgct gaaactgang atganagatg ctggcgagac 360

aagcaaacta cagcatnggt cannagtgtt tggatcgttt aacaattttc cctggggaag 420

aaacaccatt gttccggttg catntcagca ntttttctgc ctaac 465

<210> 4826
<211> 511
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-A4

<400> 4826

aantgtctcg cctggtcgta ccggcccgan attcccgggg ccccccacgc gtccgcnaac 60

gcgtcngata atttacttct ttctttataa ctaccatatt ctcaatcaca acactcgcca 120

ctgtttcgaa tagatggctt ctatttcaac ccctttccg atttctctcc acccaaaaac 180

cgtacgatca aagccgttga aattccgagt tttgacccgt ccgatcaaag cttccgggtc 240

agaaactcct gatctaaccg tagcgacacg aaccggatcc aaagatctcc cgatccgaaa 300

cataccggga aactacggtt taccaatcgt aggaccaatc aaagaccgtt gggattactt 360

ttacgaccaa ggagctgaag agttcttcaa atcacgaatc cgtaaataca actccacggt 420

gtacagagtc aacatgccac cgggagcttt tatcgccgag aatccacaag tcgtggcttt 480

actcgacggt aaaagcttcc cggttttatt c 511

<210> 4827

<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-B1

<400> 4827

gtaccggccg anattcccgg angccnccca cgcgtccgcn aacgcgtcng cggacgcgtg 60

gggattaaaa gagttgaaaa tctccttgca tgtgtctctc ctctgctctg caacaaatgg 120

ttcccgaaac actcagcttt agctttcggt cacttgttaa gactgctaaa aaaaggacca 180

gtggattacc aacgagtcat attacttatg ctcaaggcat tgctccaaca cactcccatg 240

gatgcttcgc agagtcccca catgtacaca attgtttcac agctagtcga aagcactctg 300

tgttgggagg cattgagtgt tctcgaagct cttcttcaga gctgcagccc ggtacaaggg 360

ggcaccggtg gatcccaccc tcaggattcg agttactctg aaaacgggac tgatgagaaa 420

acgcttgtac ctcagacttc atttaaagcc cgaagcggac tcttcatacg caatgatggc 480

tgcaacaatg tcgca 495

<210> 4828
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-021-Q1-E1-B11

<400> 4828

cttttctccc agattcatca atccctcctg ctaccgcgag agagtaacaa ctcaccggac 60

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tgagagattt tctggatctg tgatacgttc caggaaacat ggcgacgatg aaaagtttga 180

taggtctgat aaacaaaatc cagagggcgt gtactgtcct cggagatcat ggcggtgaag 240

gaatgtcgct ttgggaagct ctcccaaccg tcgctgtcgt tggtggccag agttccggaa 300

aatcttcagt tctagaaagt gttgtgggaa gagattttct gcctcgtgga tctggtatcg 360

ttacaaggag gccattggtg ttgcaacttc ataagactga ag 402

<210> 4829
<211> 451

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-B12

<400> 4829

ctcnacgccg ctcggaaccg gtcacaaatt cccgggncga cccacgcgtc cggctgaatt 60

acatatgctt gcgtatactt ggagtaggtc ccgatggagg actagaaaac gcatgcaaac 120

gggccaggca atggattctt agccatggcg gtgtgattta tattccttgt tggggaaaag 180

tttggctctc ggtacttgga atctatgatt ggtctggagt caacccgatg cctcccgaga 240

tttggttgct accttatttc ctaccaattc acctagggaa agcttttagc tatacccgga 300

taacatatat gcccatctct tatctatatg gcaaaaaatt cgtgggtcaa attacacctc 360

ttattatgca actacgtgaa gaactacact tacaacctta tgaagaaatc aactggaaca 420

aagcgcgaca tctaagcgca aaaggaanac a 451

<210> 4830
<211> 518
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-B3

<400> 4830

aantgtttcg catgggtctt accgggccga naattcccgg aacnacccac gcgtccgaag 60

tttcagacat aacatctctt cccatctctc tcccctctaa gcaattaagc agacangaca 120

ctgatgatat gagacgaaga gaaagaagtc ttatcactca tcctttcctc ttatgaatct 180

ctccgccgac caagctcccg tcaccgccgt cgacgaacta gctccgcctt ctcaaccgca 240

tcgcttatct acatcangtg atctccaccc agaagagcgt ttctccggtt tctgtccttc 300

ttgtctttgc gacngcctct ccgtcttaga tnanaangcc gctccgccac cgtcttcttc 360

ttcccggaaa cctcnctcta nctccgctgt ttcgttaaaa gctctcttca agccctcctc 420

tagtggtaac aaacaactcc aacggnnaan nggtcggggt cagacccggg ttttctcccc 480

ggaggctccg aagttacaaa agtccctttt ccgcanag 518

<210> 4831
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-B4

<400> 4831

atctnagtcg cgccgtcaac tttttgttga gaagagatat catctgtttt cgatccaaag 60

aatagaaagc ttggattccg aaatctccct ttttgcttcc ccaattcgtt ttcctttaca 120

agctcggcgc ttgatctcgc tatctctcag agagctgaga gctgaggata ttggaaattt 180

ggaaggtgga atctcaaatg gctgaacttc ctggtcaaat aagacatata ggcggtcgaa 240

tgagtcaact gctagagcag atatatgggt tttcgagaag atctttgttt cgggtcatat 300

ctatgggtcc tataccttgt catattgcct ttatcatgga tggaaatcgg agatatgcaa 360

agaagtgtgg tcttttagat gggtctggtc acaaagcggg gttttctgcg cttatgtcga 420

tgctgcaata ctgctacgag ctgggtat 448

<210> 4832
<211> 506
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-B5

<400> 4832

cttacgcctg gccgnaacgg tccganaatt cccgggncca cccangcgtc cgcaaatatc 60

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aaagaaggcg gaaaacatag tcgctctttt aaataataaa gagaaaatct cagaaatcag 180

agacaaagca gtagcaaatc gtaacaagta tgttggcctc tcatcaacgg gaataacata 240

taaatctggt tcctcagctt catttggtgg tagttttcaa agtggttcaa gcaattttga 300

cagctacaag gatagagatt ccagagaaga caagaatgac tacgagtctt ttcaaaagtc 360

aagacgtggt gttaaaactg aggagcaaag ctacacttct aagaagagtt tttcacgcta 420

tggcagcacg gaccatgaca atctatccag tggtaaaaag tcacccgatt ctgccaaaac 480

ataggtcata tgtatctgca gctcct 506

<210> 4833
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-B8

<400> 4833

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attcttcatc gaatagtcga aaaatatttg aactttctta ggaaaccaaa ccaacaaaac 120

aaaaaggaaa acgagataat ggtgttacct tggagatcaa gaggaggagt agcaaagaga 180

cgtaatcaat tgatttccgg cgatatctcc gtcgtggaaa ccaagattcc agttcaactc 240

cgatcgccat caaggataga gcggattcag tcaccgcgcg tgctgttgac gccgcgtgat 300

gcggtggaga taagtcggag attgcaaaac gcancggcgc gtgaggagta tgccgagtgt 360

ttggagattg tgagcaaaat caagaacttg ggaaagaaga aggggacacg aancaagaag 420

tgtttggtcc aaaaacggaa gcgttttggc tttgtctcct ggttttgaaa gattcgcggc 480

ggcgccntga tggacacat 499

<210> 4834
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-C10

<400> 4834

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tcgcaactag agaagctaat tccattgaag ttaaggtggg gataattttt ggttttagna 180

natactaatg gctggagtac tanctgggga atgttcttac agtgagagtg gnntttcatc 240

anactcaang aattcccatg aaaagcaaga anaggtttcc cgctggtatt ttggaagana 300

agaaatagaa gagaattcac cgtcaangtt ggatggtant gacttaaaga aggaaacata 360

cctccgcana tcctactgta catttttgca ngacttgggc atganattga aagttcccca 420

ngttncaata tcnacagcga taatcctct 449

<210> 4835
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-H4

<400> 4835

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cttcttttaa caagaaacca ccgctctgta caaaacaaag tctccgtcgt ttcttctccg 120

ttctccggtc aattcgaatt cctcagagag aaatttgtgc tcgcgagttc cgcgtgaaat 180

acatggaaat gttggcggcg ttggactcgc gttcttctct ccatcttcat cgttccatgt 240

ctcgcgttga ccttttttgcc ggtgttcgta tgaaaccatc tcctacaagt cctgttccga 300

atacgcctcg aatatgtggg aagtaaactc tgttgattcg actcttcctc ctccctttaa 360

gtaattcctc cgtttgnttt tcctttgcaa ccggaatttc caagattcaa atccgaaagc 420

tgtgaattaa cctggtaanc gtcctggtgt tagtcctaat ttaagggaag tggattcttt 480

cccgggggaa agaaattaa 499

<210> 4836
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-F5

<400> 4836

ggnttctcat tgttcctttg ttagacttat ccatttcaca ttccatttaa actaagagat 60

tggattaaat tttcagagga atggttcgaa ggcaagcgac aacaacagac tgtaccctgc 120

tcacagggag acattctcag ccacagacga agaanaaaag attcttcaaa tcgacaggaa 180

acacatcagt tcttacacaa gacgcaacag accagacatg ttctactcat cccacctcat 240

cctagacaat gctggcctgt ctgaaccagt tttcgccacg ccttttagcc cgtcctcgtc 300

gcatgaagag attacaagcc agttttgcac tgcaagagaa cagtcctcaa gtttatactc 360

agctacttct anaaagcaaa cgcagtggct ttaaccgcta nttctaatag ncacngagcg 420

antgcncaaa aagctgctgt gatggtgaca tccaaanc 458

<210> 4837
<211> 523
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-F6

<400> 4837

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ccacgcgtcc gcggacgcgt gggttgcaat ggcttccttc acaacaactt cttcttcctc 120

gcttctcctc aaaactcttc tccccgtaag ccacctgaat cgtttctcta cactctctgg 180

tatccgcgtt ggcgattcat ggactcctct gctccggaac atctccaccg ctgggtctcg 240

gcgtcgagtg gcgattgtga aagctgcgac ggtggattcg gattactcgt cgaaacggag 300

caatagcaat gagcagagag agacgattat gcttcctggg ttgcgattac aatcattggc 360

tcattgtaat ggagtttcct aaagatcnag cggccaaagt agggattaag atgatttgat 420

acttaccta aacaactccn tgctactggt ccttgggaan caatgggnan nanggcgaaa 480

gaangaaaca atgtntggca anttcaagtn accaacgaac att 523

<210> 4838
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-F9

<400> 4838

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cctaacgctc cttcattaac tttcttcaga cagattacaa taacgtgtaa tatacaagac 120

acagaaacat cattgattcc gatctcaagt tttgtctttt tgatttcata tacacagata 180

catagataac aaacacacat ctttgatcaa atgtctggac tttggagatt gaggaatcta 240

aagtctctag ctttacatgc tcgttcgatt tcacctgttt ccaatcttta ttctctggaa 300

ttaggatcat gccctcgtcg tcgtattcaa gaacgattca aatcggaaca aagnggcgga 360

ngaagaagag gagatgattt ccggttccgg tgactcntcc ggaagttaag agcaagagcc 420

gaantgtcct ccgttgctca a 441

<210> 4839
<211> 550
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-G1

<400> 4839

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agaagggtta catggtagga aatgggctga tggacgattt ccatgacagg cttggtcttt 120

tccaatatat ttggtcgttg ggttttatat ctgaccaaac atacagctta ctgcaacttc 180

aatgcggttt cgaatcgttt attcactcct ccaaacagtg taacaagatt ctggagatag 240

cggacaaaga aataggtaac atagaccaat acagtgtctt caccccagct tgtgttgcca 300

atgcttccca gtcaaatatg ttgctaaaga aaagacctat gactaacccg cgtgagcgaa 360

cagtatgatt ccttgtacgg gagaaacaca ctacaattta attcaatcct tccaagaagg 420

gttcaaaaaa gccctccaat gttccaacca aggaacttgc aacaatccaa aaatggggat 480

aacttgcaat tgatggtcct tgaantgaac aactgggaat tgactcctcc cttcctccgg 540

gtttctaaaa 550

<210> 4840
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-G12

<400> 4840

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atgttcgctt cacgagctta tcaacttcaa gaatgcggtc caaatttgtt tcanccaatt 120

atagaaaaat ctcaatccgg gcatgttctc aggttggtgc tgctgantct gatgatccag 180

tgctggatag aattgcccgg ttccaaaatg cttgctggag atttcttaga ccccatacaa 240

tccncggaac agctttacga tccactgcct tggtgacaan agctttgata cagaacactc 300

atttgatcaa atggngtctt gtactaaagg cactttcagg tcctcctgct cctaattggt 360

gggaatgggt atatantccg tatcantcag atttacgaca ttgggatcna caaagtgaac 420

aaaccatact tgccaataac aacag 445

<210> 4841
<211> 520
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-G2

<400> 4841

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ccactcccac tttatttctt cttctctggt tttcttacca aaagaaactt tcttcgtctt 120

cctctgtatt taagctttaa caccctgttt ttggtttcca acgttcaatc ttcatcttct 180

tctcgctgaa ggtgtgtttg gctctaacgg tttaaagctt tcttgaaaca ccaattgaat 240

cttttctctc taccggcaaa aaaaaaaaga ttagtccttt taggtctgga aacgccaaga 300

tcactcgttc taaaccttag attttgtctg catttcggga taatcatttc atcgtcaggg 360

ttcttcaacc aaactacatt tacagaagaa gaagaaagaa agaaaaagtt ccgttaactt 420

ttaagcgttt ggntaaacaa aactcaaagt tcctcctcaa tacatcgatn ctgatttcca 480

anattaaacn tcgaaaagag aaaaaagcct ctttaaatga 520

<210> 4842
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-G4

<400> 4842

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ctctagctcc aggcgttaat ggtccaacat ggaacacatt gagattcgcg tttctgctac 180

tgggtctatg tctanctttc atgctctctg tagctttcac cagtggccaa tcantgttgc 240

ttgttcatgt tggctttctc attgttancg catctactct ctttatcctc ctcaattggt 300

ttcttgctca gacaggctta ctacaagtgg taacacagat gcaggagctg aatttgttac 360

cgtatgatca nnacaaatgg atcatgggca caaccnggtt gnangcaaga cgcttgtgtt 420

aacaagttca acaagttatc naccagatta tatccaagcc aaattatgaa nggactgggt 480

ttggtacaac caagaaggnt tca 503

<210> 4843
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-020-Q1-E1-G6

<400> 4843

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ccgccctccg ccgtcatcct tcagtcatct ccgttatacc tgatcaagcg cgtgagatcc 180

acacaactca cacgcctgcc ttcctcggtt tctcccaaaa ctctggactc tggagcaact 240

caaattacgg ggaagacgtg atcgtcggcg ttttagatac tggaatctgg ccggaacatc 300

caagtttctc ggattcaggt ctcggtccaa ttccatctac ctggaaaggc gagtgcgaga 360

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acagggatat taacgcaacg g 441

<210> 4844
<211> 506
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-G8

<400> 4844

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accaacaagg atgatgattt ctctcttaag gccattgatt ttggtctctc tgttttcttc 120

aaaccaggcc aaatattcaa ggatgttgtt ggaagtccat actatgttgc tcctgaggtt 180

cttctaacaa catccttgaa tatttggtct ctctgttttc ttcaaaccag gccaaatatt 240

caaggatgtt gttggaagtc catactatgt tgctcctgag gttcttctaa aacattatgg 300

tccagaagct gatgtgtgga ctgctggtgt tatactctat atcttactaa gtggtgtccc 360

gcctttctgg gcagaaacac agcaaggaat atttgatgct gtgttgaagg gatatattga 420

ctttgataca gacccgtggc ctgtcatatc cgacagtgct aaagatctga tccggaagat 480

gttatgctcc aatccttctg aacgtt 506

<210> 4845
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-H10

<400> 4845

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tgctcccaga gataagcgtg ttgttagaga tgctactact gaggatgagc tttggtgggg 120

aaagggttcg ccgaatatcg aaatggatga acatactttc atggtgaaca gagaaagagc 180

tgttgattac ttgaattcct tggaaaaggt ctttgtcaat gaccaatact taaactggga 240

tccagagaac agaatcaaag tcaggattgt ctcagctaga gcttaccatt cattgttatg 300

cacaaacatg tgtatccgac aactcaagga ggagcttgag agctttggac tcccgnattt 360

acaatataca atgcctgggc aatttccaat gttaacgttt cactccanta caatgactcc 420

gccaacaacc gtagaccnta atcctggct 449

<210> 4846
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-H12

<400> 4846

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gagtttttgc tcttctcgtc ggtgaaagaa aaatcgagat gggttcaact ccgttttgct 180

actctatcaa tccatctcca tcaaagcttg atttcacgag gacccatgtg tttaatcctg 240

tttctaaaca gttttactta agatttaaca accgtttccg gaaaacccgg aggaataacc 300

tgggtttaag anccgtccaa nctttgctcc gaantaaagg cggcnacggc gttaatttaa 360

aaaggnngaa naaananaaa aggcggttaa cgggnaagaa gaagaaatcc aagggtttta 420

attgcccgaa ggtggnaanc cganggattg ggggtttgcc ttaaccggcn aa 472

<210> 4847
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-H2

<400> 4847

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ttaagcacaa gaatctatgc cttgtcctct ccttcgtagc cattcttggc tctgtggctt 180

tcttcacagc ccaattaatc tccgttaaca ccaacaataa tgatgattcc ttattaacta 240

cgagccagat ttgccatgga gctcacgacc aagactcatg ccaagctctc ttgtccgaat 300

tcacgacgtt gtcgctctca aagctcaacc gccttgacct attgcacgtg tttttgaaga 360

actcggtgtg gcggcttgag agcacgatga ccatggtgaa cgaaggctaa gattcgctcg 420

aacngtgtta agagacaaag gnaggttttg ctggactggc aaggagatga tgggccgtac 480

caaanggttc gggttg 496

<210> 4848
<211> 517
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-H3

<400> 4848

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atttctctct ctctcttttt tttagccatg gagaaatttg cgcctgtcgc tgctctgtta 120

ctgcttcttc tctgttttcc ggtagctttc tccggtcatg attatggtca agctctttcc 180

aagagtcttc tcttcttcga agctcagaga tctggtgttc ttcctcgtaa ccaaagagtc 240

acttggcgct ctcactccgg tctcaccgac ggcaaatcaa gcggcgtgaa tctgggtcgg 300

aggttactac gaacgcccgg gagacaatgt gaaaatttgg attaaccgat gggcttttaa 360

cgggtggaac gaatgaatgg gcgttgggaa gtgtgaattt gaagttacng gggaaattca 420

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attaaaatng ggggggtaac cgggaattaa tttcaaa 517

<210> 4849
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-F3

<400> 4849

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aagaaagaga aagagagggc agagacaaaa atttcttcgc cgtctgagtg ggaaagatgg 120

cggaggattt cgctagagcg gtagacgatg ggcttaaact cgcgaaacgg atttatttcg 180

gcaaagaccg agccgttgcg gcgccgagac cacctgctcc gatggacaga tcttccacta 240

cgcagcctta ccttcctaca gcacctatgg tttacgccgt tatacccgac ccgggaattg 300

tggataaccc ggatttgcct agctatcagc ctcacttgca acggaaggtg caaccaaccg 360

gctttgatcc ccccggaaga tgaattcaat tganctgggc ttgaatggta accccaanac 420

ggtcctggtt aacggtcacc ggntcntggc gggttcattg ggttaang 468

<210> 4850
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-019-Q1-E1-F10

<400> 4850

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cgtcagcctg gattggttga cgaggctttg acagaaatga gtggaagcca gttgagtttc 120

tctagtgtcg tagatggagt gtttggactt cagaaagtga catctgctct tatgtcaatt 180

gatggacatg gnttanttcc caaaaatctc tctgctgtta ccggccatgg aaaagctcca 240

atgttgacta gctatcattc aaattccttg tataatcgac agggtccctt acaatctaac 300

tcttaaaata tgttatcatc tccccctggg aaaggttcaa ctatgaagaa gatanccatc 360

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tcccctganc aggcc 435

<210> 4851
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-F12

<400> 4851

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caacacattt cttcgctgga catccccgtt attgatctaa gtaatcccga tgaagagctt 120

gtggcaagtg cggtggtcaa agcgagccaa gagtggggaa tatttcaggt ggttaaccac 180

ggaatcccga ccgagctgat actgcggttg ctacaagtgg gaatggagtt tttcgagcta 240

ccggagacag agaaggaagc cgtagcgaag ccagaagact ccttggacat agaaggatac 300

agaaccaagt accagaaaga tctagaaggt agaaacgcat gggtggatca tctctttcac 360

cgcatctggc caccgtctag agtcaatcac aaattctggc ctaagaatcc tccagaatac 420

attgaagtga atgaagagta cgcaagtcac ataaagaa 458

<210> 4852
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-019-Q1-E1-F3

<400> 4852

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tgtcaacgcg tggttccatc ttcaattttg tttctatttt agcagaagtt tctcgagctt 120

caaatactgt ttcagatcaa tcaatcagtc aatcatggct agctctggaa acaagaacat 180

caacgccaaa ttggtattac taggagatgt tggagctgga aaatcaagtc ttgtgctacg 240

gtttgtgaaa gatcagtttg ttgaatttca ggaatcaacc attggtgcag ctttttttctc 300

tcaaacattg gctgtgaatg atgcgactgt gaagttttga gatatgggat acanntggtc 360

aaggaacgat accacaagtt gggctccaat ngtactacaa gggtgcaanc tgctgcaata 420

attggccttt gcaattacta atcaaanctc aatttgaaag ggcgaagaa 469

<210> 4853
<211> 511
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-F5

<400> 4853

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cccacgggaa gcgccaatct ctttctccgg cctctcatcc tcgccgttct ctcctttctt 120

cttctctctt cattcgtctc ctctgttgag tggctcgata tcgattcctc agatctcaaa 180

gctcttcagg tcatcgaaac agagctcgga gtcaacagtc aacgttcttc ggccagtgat 240

gtcaaccctt gcggtcgccg aggagttttc tgcgagagac ggcactctgc caccaccgga 300

gaatacgttc tccgtgtcac gaggctcgtc taccgatcca ggagcttgac ggggactatc 360

tctccggtca tcggaatgtt gtcggagctc aagggaactt actttgtcct aaataaccag 420

tttggtcaac gctgttcccg gtgggatatc cttaagcctg ttaagcaaac nttgaaagtt 480

tcctggatnc ttcgggaaaa taagnatttt c 511

<210> 4854
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-F8

<400> 4854

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gtttgaagct ctatccctgg tcatgcatct tgatgctgag aaggaaatga tgtcacagtg 120

tgttgctctt cttggcaagt ttatttctgt ccgtgagccc aacatcagat atctaggctt 180

ggaaaatatg acgcggatgc tgatggtcac agatgttcaa gatatcataa agaagcatca 240

gtctcagata atcacctcct tgaaagaccc tgacatcagt attcgtaggc gtgctcttga 300

tttattatat gggatgtgtg atgtgtcaaa tgcaaaggat atagtcgaag agttgctgca 360

gtatcttaac acagcagagt tttccaatgc gggaaagaan tatcacttaa agctgcaacc 420

ntgctgaaaa atttgccctg atcaacaatg gaat 454

<210> 4855
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-G10

<400> 4855

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ctaatgtcag cttttgacgg cgttgaaaat caaatgaacg gtccagattc atctcctcgt 120

ctctctcaag atcctcgtga gcctcgctca ttattatcat cttcttgttt cccaatcacc 180

ctcaagttcg ttgatgtgtg ttaccgagtc aagatccatg gcatgagtaa cgattcttgt 240

aatatcaaga aactattagg attaaaacaa aaaccgtccg atgagacaag atcgacggag 300

gagaggacga tactaagcgg agtcaccgga atgatatcac ccggcgagtt tatggccgtt 360

tcttgggacc aatccgggaa attggcaaat cctacgctaa ctaaaacgca gtccncaagg 420

ggagactccc aagggattaa aacctcaacc gggaaaaata cnttataaac cga 473

<210> 4856
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-G11

<400> 4856

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ggtagccttc aatttaggat cggagttcgt aaataaggtg atttagcgaa gatgatggtc 180

gaagatcttg gtgtggaagc gaaggaagcg gctgtgcgag aagtggcgaa gctcttaccc 240

ttacctgaac ttttgcagtc tatttcttca atcaaggccg attacatcgc tcgtcaacag 300

gcaaatgatg cacagctcag tactatggtt gctgagcang ttgaacaagc tcaagctggg 360

ttagagtcac tttcatcatc tgagaaaacc atttatgaac tgcgggataa ttcatttcat 420

cgacaagctt 430

<210> 4857
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-G3

<400> 4857

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taccggtaca tctgtgacac caagggtgct tttgtccaac ctgcattata tgaagccttt 180

gggttaactg ttgtggaggc tatgacttgt ggtttaccga ctttcgccac ttgcaaaggt 240

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gatcaggctg ctgatactct tgctgatttc cttcaccaag tgttaaggga agatncaact 360

cactggggaa tgaagatttc aaaaaggang ggcttcaaga agattgangg agaaattaca 420

cttgggcaaa atccaaatca acaagaaggg ctccntggac aattgaacng ggtgttgtaa 480

agg 483

<210> 4858
<211> 512

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-G4

<400> 4858

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cggcagcaac tctattctgc cgcgcagacg cggcgtttct ctgcggcgac tgcgacggta 180

agatccacac agctaacaaa ctcgcatcac gtcacgaacg agtttggcta tgtgaagtat 240

gcgaacaagc accagcacac gtcacgtgca aagctgacgc cgctgcgtta tgcgtcacgt 300

gcgaccgtga tatccactca gctaatccac tctctcgccg ccacgagcgc gtacantcac 360

tcctttctac gaacgctgta ngtccaagca aaatccggct tcntcctccg gtaattttcg 420

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gatccganat cnctaaattt gttctccgat tt 512

<210> 4859
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-G6

<400> 4859

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tcttganaac aattcattaa caggatttat ccctaaggaa ttgaagaatt gtgtcaaact 120

tgttgatctg aatctcgcta agaacttctt gaccggagaa atccctaaca gtttatctca 180

gattgcttct ttaaactcgt tggatttctc agggaatagg ctaacaggtg aaatcccggc 240

gagtcttgtg aagttgaagc tgagtttcat tgacttgtct ggaaatcaac tttcaggaag 300

aataccaccg gatcttttag cggtgggagg atcaaccgcg ttctcacgta acgagaanct 360

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ttggctaaca aaacgntgaa naaggataan tcactccaat ggaaca 466

<210> 4860
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-H1

<400> 4860

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tgttcgtgat ctctcttcct ccggaaaaag atgtcggccg gtaacggaaa tgntactaac 120

ggtgacggag ggtttagttt ccctaaagga ccggtgatgc cgaagataac gaccggagca 180

gcaaagagag gtagcggagt ctgccacgac gatagtggtc cgacggtgaa tgccacaacc 240

atcgatgagc ttcattcgtt acagaagaaa cgttctgctc ctaccacacc gatcaaccaa 300

aacgccgccg ctgcttttgc cgccgtctcc cgaaggagga acgtcagaaa gattcagctt 360

caaatctaat cagtgcatcc gttaagcatc cgtttaacna agaagaattc aagggaccaa 420

aanggtggtt gaagaangga gatttccggg cgggagaaan gaaagaaccg a 471

<210> 4861
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-H10

<400> 4861

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ttcttctctc cgcatggcaa gagttcaatg attttggtga agatggtggc cgatcagcta 180

aatctttgaa accaaaattc aatgcctttg taaaccatgt gacaactcac actgggccag 240

caattgccaa cagtcgatat gaagattcct gttgctgctg ctatancctt gaagggtatt 300

gggggacnaa ttggttgncc ttggcaactc aatgggaacc taacccctgc ctcctgcaac 360

aaacccttgc caacccaatt cngtaagaat tccacaacta cgaagttgca aaaaagggan 420

tcggcaacta atttcaaaan ttacac 446

<210> 4862
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-H11

<400> 4862

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnaga gttttgtcag atctcgccgg 180

gaaattagca atggcgtttt agtctgttta cctgtgaagc ttttgcgtaa acgctggatt 240

cttctcaaat ctctctcacc tgatctctta ttagattccg aggatggcgc taaagcgagg 300

gctatctgga gttaaccgga ttagaggaag tggtggtgga tctcgatctg tgcttgtgct 360

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cgaatcctca aatgan 436

<210> 4863
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-E9

<400> 4863

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cgtggggcag cttttagtat ttttttcaac aatcgctttt ttttttttct cgatctccgt 120

gaagctctcg aatctctggt tttgagtttt ggagaatggt gtttttccgc agcgtatcgg 180

cctttactag gctgaggtct cgcgtcggcc aacaatcttc actcagcaat tctgtcagat 240

ggattcagat gcagagctct accgacctgg acctgaagtc gcagctgcaa gagttaattc 300

cggaacagca ggaccgtctg aagaaactga agtcagaaca tgggaaggtc caactgggaa 360

acatcactgt tgatatggtt attggtggaa tgagaaggat gactggattg ctttgggaaa 420

cctcaatgct tgacccggaa aaggtatccc cttaagggga atgtccaatt cctgaattgc 480

aaaaaagttn t 491

<210> 4864
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-D5

<400> 4864

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gcagaagatg gtaaatttag tgtggagacc catctccact caaacctctt cagttattgc 180

tgaagctgga aatgaagtcc aagaagtagc tcagtgtagc aaatcaagtg atgtttctaa 240

ggaagttatt gaaggagaga cagcttcagt tgtttcagct ggaaagcatt cagtttctct 300

tgaggttggg gcttctttga ttaagttcat tagagggaaa gaagggancg acgcagatga 360

aactttgaan aaggaaatgg ggagtgaaag ntcaatccnt ccatcaanca aaggaacaaa 420

gatnatatca nccaattgan agncggttca ntnggnattg tggtgancca aaagcc 476

<210> 4865
<211> 504
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-D6

<400> 4865

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acgtcaccga tggcgtctca agctgcgaat ctctgggttc ttctaggttt aggtctcgct 120

gggattctta tgcttaccaa aaagctgaag aagaccgtcc gtgaagattt cggcgctttt 180

atcgataaac tcatgcttct tccccctccg caacctgctc ctcccaaagc tcctcatcct 240

ctcaccggtc taacctttgc cgtttccgac gtattcgata ttacagggta tgtgactgga 300

tttggtcatc cagactgggt caggacccat gaagctgctt cgtcaacatc tcctgtggtt 360

tcaactctcg ttgaangtgg agccactttg tgttgggaaa actgtagttt gatgaatttg 420

cgtttaataa ttagtggaga aaacaagcat acgaatcacc tncaaatcct gnaactccta 480

ntcgtaatcc tggtgggcgc ttgc 504

<210> 4866
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-D7

<400> 4866

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cccagacagc gtggttggaa ctgattcaca tacaactatg attgatggtt tgggagttgc 120

tggatggggt gttgggggta ttgaagctga ggcaacaatg cttggccagc ccatgagtat 180

ggtattgcct ggtgttgttg gattcaaact tgccggaaaa atgcgtaatg gtgtaacagc 240

tactgatttg gttctaacag tgactcaaat gctgaggaag catggcgttg ttggaaagtt 300

tgttgagttt tatggtaatg gcatgagtgg gctgtcccta gctgacaagg gcgacaattg 360

ccaatatgtc tccccgagtt atgggtgcaa ccatgggcct tcctccctgg tggatnaatg 420

ttaactccta caataacctc aaanttgact gggaanaaac caatgaagac anttggc 477

<210> 4867
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-D9

<400> 4867

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cacacttctt ctcttaacaa cacaacacaa ctttgaattt ttcaccctca ctttcattta 120

tctcaaatct ccttccagaa aagcgaggga atagtgttgt tgagaggttt gtgatttcct 180

tttgaaaaaa tgatggcttg tggcttaagc aagagccttg gcttgtcttc ctccttgaag 240

aagcaacaag gcatagtgag tatccttggt ggcatttcgt cgaacacttc atctgcacct 300

tcacttaggc gaactttctc cgccgatttg tcctccaaga cttgggtttc ccaaaatggg 360

ttttctccta tgaagagaat ctcttcctct gagaagcttc gtcctgacga agaagaagca 420

gaggaagaat caagatccgg agtcgatatc tgggcacaag attcaacaag acaagaacga 480

taagaagaaa g 491

<210> 4868
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-E1

<400> 4868

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ctttctttat cgtctcggtt tcgtcgtctg angtcaacga cggngatgat ctcgtgatcc 120

gtcaggtggt tggtggagcc nagcctcagg ttttgaccnc agaggatcac ttttctctct 180

tcaagcggaa gttcgggaag gtctacgcnt ccaacgagga gcatgactan agattctcgg 240

ttttcaaagc gaatctcang cgagcgaggc gtcaccagaa gttggatccg tcggcaactc 300

atggtgttac gcagttctca gatctgactc ggtctgagtt ccgtaagaag cacttggggg 360

gttagaagtg ggtttaanct tcctaaagat gcaatnaacg gntcccgatt tcccctaanc 420

gnnaaatctc cctgaaggat ttngattgng ggaaatnatg nnccgttact cccgtcanaa 480

atcagggatc ttgcggncct gccgg 505

<210> 4869
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-019-Q1-E1-E10

<400> 4869

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acgtcgacgt cagctgcagc tgcagcagca gcgatggcga cgaggaggaa accgtcgtgg 180

agagagaggg agaacaatcg gagaagagag cggcggagaa gagctgttgc ggcgaagatt 240

tatactggtc ttagagctca aggtaactac aatcttccaa aacattgtga caacaatgag 300

gttcttaagg ctctttgttc tgaagctggt tgggttgttg aagaagacgg aactacttat 360

cgcaagggac acaagcctct acctggtgac atggctggat catcttctcg agcaactcct 420

tact 424

<210> 4870
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-019-Q1-E1-E11

<400> 4870

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gtgattgcag ctactaaccg tgcagatatt ctggacccag cactcatgcg ttctggtcga 120

ttagacagaa agattgagtt cccacaccca accgaagaag cgagagcaag aatcttgcag 180

attcactcaa ggaagatgaa tgtccaccca gacgtcaact ttgaggagct tgcacgatca 240

acagatgatt tcaatggagc tcagctgaaa gcagtgtgtg tagaggcagg catgttagct 300

cttcgccgtg atgccacaga ggtgaaccat gaagacttca atgaaggtat catccaagtc 360

caggccaaga agaaagcaag cttgaactac tacgcctgat ctctctctct catcatttat 420

ttttatcaat gccgttt 437

<210> 4871
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-E12

<400> 4871

taattcaaat tttctccatt ctctcgttcc aattattatt tacttttttc acccaataaa 60

aaaaaaacca tgcattcact tccggtgaat ctcgtcctca ccgtacttac ggtgttccta 120

acatcaccgg cgcaagttat cggataccgt ccatatccac caaaaaccaa cggctccgat 180

caaatcttcg acgcttcaaa aaaattcgaa ggctcatcga atctcgtccg cctccgttac 240

cacatgggtc cagtcttaac caacaacatc accgttcacc caatctggta cggcacgtgg 300

caaaaatccc agaagaaaat catccgttgg ttaatgcttg gtacgcagga cccgacccgg 360

taactccggt tgagataacc ggatctttgt gaaggtantt atggaacaag gaggtggtgg 420

ttcgtacaca aggacaaatg tttga 445

<210> 4872
<211> 517
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-E3

<400> 4872

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ttgnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnntggt acttagatgc ggttcttgtg ccaagtgctt tacttatgat 180

gtttggttac cacatctatt tgtggtataa ggttcgaacc gatcctttct gcaccattgt 240

tggtacaaat tcccgcgccc gtcgatcttg ggtagcagcc atcatgaagg acaacgagaa 300

gaagaacatc ttagcggtac aaacactacg aaacacgata atgggaggga cgttaatggc 360

aaccacttgc atcctcctct gcgcangtct cgctgcccgt tttaaagcag tacttatagc 420

atcaagaaan ctttaaacga cgccgtatat gggagctcaa tggtgacntc actgttgcac 480

tcaaaatacg taaccatcct canaatcctc ctctccg 517

<210> 4873
<211> 558
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-E4

<400> 4873

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tctggcaata acgaggatga gcaanaaaaa tagtgacatc tgtataaacc tctctggtgc 120

atatatgaaa gtgggatcaa gatggtgttc ttgatgcagg aatcangtgg ggctcnaact 180

tgatgcacat atccatacct gagaaggctt acacttctcc aattttggtg ttcttgttcc 240

gtaatgattt aaggcgctac cacactgtaa cgtatgtctc cctcgactac aacagcttgt 300

agtgaagatt aangcaaaaa aaattcttgg aagattggtt catcattntg ctctcaaaaa 360

agcctgcaaa aatttctcct taaaaggnta atccaaaatg aattgacctt gggattctta 420

attggattga aagaattctc cggccaaacc gggnnggatt gacctttga aggaaaancc 480

tcaaaagttc ctggccggcc caaacnggtt tgntaanaac cccccnaaaa aaaaggcctt 540

tgcaaaanaa actggttc 558

<210> 4874
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-E5

<400> 4874

gnactaccgg tccacattcc cggggccccc acgcgtccgc nancttcctc atatatttcc 60

aaaacaatac ctttcttctt ctctcttcag aagaaacgag agattcgagt gatgttttat 120

gaactactac tagtgttttt ttccgtgaag taangagaaa cggtaacttt ttctatttgt 180

tttcaagaaa agccaaagaa aaaaagaatt tttaatatac tctgtttttt gcaatgattt 240

tgttttgtga aatttttctc ggagaagaaa gtaatttaga agacggagag tggcaaaacg 300

aaatataaaa aaaaaagttt tcaatttctt ttaagaaaaa aanagctttt tcccttctta 360

aaacccttcc tctgttcaga aacagagaca taagaagaaa gatagatnac aagcctaatt 420

gcgttcctcn tctcntcctc ctcctactgg ggtttaaaat canagaaacc atgtccggcg 480

aattgttcna 490

<210> 4875
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-E8

<400> 4875

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cggatcatcc ggttccggaa ccgtcggatc gtcaggctcc ggaacaggcg gatctcgttc 180

caccacatct actcagcaga atggtcggat cttaggtcgg ccgatggagg aagtacggag 240

aacctatgag tttggtcgtg agcttggtcg tggccagttt ggtgtcacgt acctcgtaac 300

tcacaaagag acgaaacaac aggtcgcttg caagtcaatc cctacgcgcc gcctttgttc 360

acaaaagacg aacattgaaa gatgttccgc cgttaaattc aagaattatg caaccaatct 420

caanccggtc aaccgggaac ataagtggga cttgaaaggg aagcctaacg aagggacaag 480

acaact 486

<210> 4876
<211> 508
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-D4

<400> 4876

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ggaaggacgc tttcagaggc gaaaggccat ggggagatac cgtctgtgat ccatggatct 120

ccgatcggga aaccgtatcc aagctccgtg gctagtctgc gctctttgga ctttgaaaac 180

ttagcgaact gaaacatcta ngtagctaan ggaagggaaa tcaaccgaga ccccgttagt 240

ancggcgagc gagagcggat ttgggatttt aagaaaaaga aagacgaagc ttcgttccaa 300

agtgttcact tctttttcgc caggtttcat tcgatttatt gtggattgga ttgatggnaa 360

accancaagn ccctcttctt tcagtcgagt tactcgtanc cttgactgaa ngatcctaaa 420

nggcgctgtg aactgtaant gtaaaaaggt tggaagattt tggcnaaaga angggaatan 480

ccctgttaga ttccgttcct atggttcc 508

<210> 4877
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-B3

<400> 4877

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ttgtttatgg tttacttcac atgaatcaca tacgttcatg tcgattcctt tgagatactg 120

tctcgatttc gtttttttct cttgtttaat ttaaaattat tgtaaagcac gtggatttgc 180

ttgtcttggt tttgttttct ccttcgacct ctttgatgaa atcgaggaac ctacaatttc 240

ttcgtcgatc caaatggtag cttagtggtg gtgataatag gtttctcctc ttgattggct 300

ccagctttag gttttttttt tatctttgtt tctgcttcga ttcccaaaat ttacctttcg 360

attttgagtc taactaagtc naagttgact caagtagagt ccgaaagcct cctggggtta 420

cgaaagagac atcctcctaa attgaaacaa aaaccttccc tttcaattgg gctganaaaa 480

aagcaagaat ctttgaataa tt 502

<210> 4878
<211> 511
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-B5

<400> 4878

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atgagcttat catcgccaac cagacagtgc ttgtagctcg tccagatgtt actcctcggg 120

attatcgttt ccgattggat ttggatcgaa tcccatcaat gtggattggt ttgttaccca 180

aaaagataca gtattgctgc tcggaagttc gtagtggctt gctcctcctc ctcttccgat 240

ccacttttgg ttaaggctgc aaaagggcaa gccataagtc gtcctccagc ttggatgatg 300

aggcaagcag gaaggtatat ggctgtttac caaaagctcg ccaagaaaca tccgtccttc 360

agangagaga tcagagaaac actgatctaa tagtggaaaa tcctcctttg caanccttgg 420

gaaagcaatt caagaccaga acgggtggtc aatcaatttt nccctgaana tcctcaaccc 480

ntttaacctg gaatttcngg tggtcccttt t 511

<210> 4879
<211> 528
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-B6

<400> 4879

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ctctgaaaac tgcgtctcta taccagcttt ctctgctctc aantccactt ctccacgcac 180

cagtggcacc atctcttccc gtcgacgaaa cgcctccacg atcagtcact ctctccgccc 240

tctggttcgt gnagccnccg tataggcaat cgngacaagt tctgattcgt ccctggttga 300

taagtcggtg aacacgatca ggtttctggc antagatgcg gttgagaagg cgaaatcagg 360

tcatccaagg tcttcctaat ggggctgtgc tcccgatgtc tcacantttg tacgatgaag 420

tcatganagt ataaccccaa ngaatccctt taagggtttt aaccgtgatt ggtttcggtt 480

ctcctctggc tggggacatg ggattgcaat gttgcaataa gcttcggc 528

<210> 4880
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-B7

<400> 4880

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aaatgataca tatattgcgt acttaccttt ggctcatgtg tttgagctgg aagctgagat 120

tgtggtcttt acctcaggta gtgccatcgg ttacggctca gcaatgactt taactgacac 180

ttcaaataaa gttaagaaag gaaccaaagg agatgtttca gctctgaagc caactataat 240

gactgcagtt ccagctattc tggatcgtgt ccgagaagga gttcttaaaa aggttgagga 300

aaagggaggg atggcgaaga ccttttttgac tttgcataca agcgccggtt aacanctgtg 360

gatggnaatt gggttggtgc ctggggtttg gagaaaatgt atgggatgct cttgtctcaa 420

gaaatacccc tgtgcttgga ggaacatcc 449

<210> 4881
<211> 469
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-B8

<400> 4881

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tatcgatatg gcgaatcatg aaacgatatt tgatcagcta aagaagcaga ttccagtaga 120

tgaggaagaa cctctgattt tgaatcgaga ctcaagcgtt ggtctcgtca tcgttgacgt 180

tgttaatggc ttctgcacaa ttggctccgg caatatggct ccaacaaagc ataatgaaca 240

gatatcgaag atggtggagg aaagtgcaaa gcttgctaga gagttctgtg atcggaaatg 300

gcggttttgg cgtttattga ctctcatcat ccagatattc cggagagacc ttaacccccc 360

cattgtatta taaggaactg aaagaatcaa gaacttggtc cctggctccn gaaaatgggc 420

ttgaaaantt aanggattgg tgccaacncc ttaagaacna aaagggatt 469

<210> 4882
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-C10

<400> 4882

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tcgacggagg ttgatcggcg acggcgtaat ggccggagga atcgtctcac cggcctctct 120

actcgaccta atcgctgata tcgtcgagat tccactcaac accggaatgt tcaagaagga 180

ttgcgcagat ctcactcgac gagtttgtct cttaacgcat ttgttagagg agattagaga 240

ctcaactcct atcgattccg ccgcttcgtc gtcgtcggag aatgattggt ggtctgatct 300

cgtggtcgga cttcaagccg cgaagcgtct tctctccaca gctcgattcc aagctcgcga 360

ttcctctgat ggtgctgcga agagaatctc atttcagttc caatggtgtt acatggaagc 420

ttgagaaaag cantgagcaa t 441

<210> 4883
<211> 477
<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-019-Q1-E1-C3

<400> 4883

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atctggccgg agcccgtttt ctcctcaggg ctctcagtct tgcatctcgg atctccatca 120

ttcccctgac aacgtctatg gatcaccttt gagtggggtg tcatctcttg cctatgatga 180

agctggagtc aagagtaaga ttcgggaact tgaggtctcg ctgctgagtg gtgatacaaa 240

agttgaagaa ttctcaggtt ttagccccgc tgctgggaag tcgtggaact gggatgaact 300

tttggctttg actccacagt tggacttgaa agaagtgctg gtgggaggct gctccggcaa 360

ttcgctgatg gggaattcgc taacaagcgt atgggattcc cttgaatgtc cttggaacaa 420

gatgggtgtt aagtctcaag gcaattccga tcaaacgggt aagggaactt aaaatgg 477

<210> 4884
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-C4

<400> 4884

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cttctccgtc acgttcaacc atgttttaag cggtgataaa agtttggacg attttgtttc 180

gaatcttgct aatgtcttca acgaggcgat ggagcgaaag gtaagtttta ggggtctagc 240

ttcctctgag gttgaaactc tgagtccaga ttgcatagac aaggttgcat tacccgagag 300

caaggttgta gataaagatt catctcagga aatatatcaa aatgggatgt tgtccaacaa 360

acgaaccaaa ggggttcaat gttgatgaaa acaaganttt caaggggtaa tgaatccaga 420

ttcccaaatt tacagggaaa attanaagaa ccggaga 457

<210> 4885
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-C6

<400> 4885

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gaggagaagc taagtgtcat cgaactacta aaacgagctc ttaagctact ctttggtaac 120

atcaatctcg ctctcttcct ctttctttgc tctctcccac tgttttgttt cttgatcttc 180

ttcgagctct ccctccaaac cactgtctca ctcgcttcca catacatctc caaactagtc 240

aattctgagg aggacttgtc ggagaatgat cttcttcctt ggctgattca gacaactctg 300

ctctacttct ttccctatac tattcttgac ctccttacca ccaccaagat ngttgcagca 360

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agattcttca agnctaagtc agaacaaaag tanggaggtt gtt 463

<210> 4886
<211> 501
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-C8

<400> 4886

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ccgtctttgg tgtcggtgag gagcactaaa ctcggacgaa gtgttagtaa tggtggccgg 120

aattggtcgg gacttactaa gttgtcggag aaatcgaaga ctaaacgagg taatggtctc 180

tgctgcaagg cggagctgtc ggagctagct ccagtcgtct ctgctactta tggtgtactt 240

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ggtttgaccg gttctgttct tatggcatct gcctacttcc ttactaaatc accagagaca 360

agagttctcg ggcgatacca taggtcttgg tgctgcttcc ccctctcttc tgtctcggat 420

tcgtttggca tcctctccgg aaacaagttc aactggtcca atactaactc cctttcaatc 480

cggnatgttt gtccttcctt g 501

<210> 4887
<211> 491

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-C9

<400> 4887

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atgtgaacgc ttttggggcc aatcgttatc ctttcagtga ggaccttgga agacaagctc 120

agatgataac cgaggtttct ggtcgattat ccgagcttaa aaccacgata gatgctgggt 180

taggtcagcg taacattctt ttgcagacca ttggagataa gtttgaacta tggaacctca 240

aggtacgcaa agagaaagct atctatcata cattgaacat gcttagtctt gatgtgacga 300

agaagtgcct cgtggccgag ggctggagtc ctgtctttgc atcaagagaa attcaagatg 360

cattacagcg tgccgccgtt gactccaatt ctcaagttgg atnaattttc caagtcctaa 420

gaaccaaaga gtcgccacca acttattttc ccacaaacaa atttacttct gcaatccaag 480

aaattgttga t 491

<210> 4888
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-D11

<400> 4888

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gtaattcact acacacacac aaaaaataaa ttgagtgcct cccccaaaaa caaaattggt 120

agataacgag caattgtttt ttttcagatt tgatcctgaa ttttttacatt ttttttttttg 180

caatctcccc ctaatctgtt gtttctcgct tcttcttctg ttaatcatct gtctttcaaa 240

aagaaagaaa aaagaaaaat tcgatttctg ggtttgtttt tgtcatacag aaaaaaatca 300

agcttatgaa tttgtgttta attttttgtt ttaatttgaa aggcaggttt tttcagaacg 360

agatcgtttt ttcaaatttc ttctgatttt acctcttttt ttcttcttag attttagtga 420

atcgagggtg aaatttttga ttccctcttt tcggatctac acagaggttg cttaattcaa 480

acctttttag 489

<210> 4889
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-D3

<400> 4889

gccaacgcgt ccgccctgtt ccatcaagat gctcatttat gggctccggt cgtanatact 60

acttctcgtg acatggcagt tgctgcaagg gaaagctcaa gaaagcttca ggccttatct 120

tcagaagata ggaaacaaat tctacacgac attgccaatg cccttgaagt aaatgagaaa 180

acaattaaag ctgagaatga tttagatgtt gctgcagcac aagaagctgg atatgaanag 240

tctttggtag ctcgcttagt tatgaagcct gggaagatct caagccttgc agcttccgtt 300

cgccagctag ccgaaatgga agatccaata ggccgtgtat taaagaaaac tcaggttgca 360

gatgatctta attttagaga agactcatca acaatangtg ttcctcctga ttgtttttga 420

atccccgggc cttgatgcac ttgttcaaga taacttcgct tgcaatccng 470

<210> 4890
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-B10

<400> 4890

cgcaaaaaaa atctccaccg ctctnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnacgca ccaactgttg cggctcaaag agatctcgat cgggatccac aagacggaga 120

tagatagaga gagagtgaga gctaacggaa atgggatctc agctacttga gtgttgcttc 180

cgtttcgtct tctactgtca ctcccacagc tccaactgtt ttccttgatt gtttttcttt 240

tatctcggcg ttttactcgg aagcttacaa cacactctct cagggatttg aaatcctcac 300

gtttcagcac attctttgtg gttcccatct attctctagc cagttcggag tttgcctgaa 360

gaaatcaaat gggttcgaga tacgcatctc accaactcaa caatgggctt tttgtgtctg 420

gccggnc 427

<210> 4891
<211> 533
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-A7

<400> 4891

gaaatttttg ccgcncctgt accggaaaan agaattcngg ggtcgaccca cgcgtncncc 60

cacgcgtccg tttccttcct aatttccaac ctctgttctt agcaatatat tttttctcca 120

aaaataattc tcagtttgat tttcttcttc tagctcttaa gtatatttct ttgttgttat 180

ttatctttta atcctttaat ctcatctttg tttatcttta atcaaaaccc aaaatttaca 240

tgggttcttn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

gctaatggtc ttaaatatgg agtctaccgg agaagctgtt agatcaacca ccgggtaacg 360

acggtggtan tacggtggta aattcgaagc gccgtcaaaa ttccaagtnn ctcaaaagat 420

tangaaagct caaaaccaat ctcccaactt cggtcaatcc tcctccaaca aaagccaacg 480

tctcaacaan anaaggtcct ccggccgctg gaaaatttcg acgggggaca act 533

<210> 4892
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-A8

<400> 4892

ggtaccggta agaaattccc gggncgaccc acgcgtccaa tttcgtagtc cccagtttca 60

gcattcaaat gcccctccaa gtgaaaactt atttccaggc aggcaacatc agagaactac 120

atcttctggg agtgtcagat cagttgacag taatttcatg tctatcaagt catatacttc 180

gggtggttta ggggaagccg tatctgaaag tcgtcaaaat acaggaagcc agcaaggtaa 240

aacatctaat catgttcctt tagtagcaga gtcgacaaag gctcctatag atttgtttca 300

gttgccagga gcgccagtgg ctcaatctgt cgatacattt caaccttcaa tagaaccccg 360

attctccacc tgtgatcttc aacaagctcc acaagacatt actcaattta ccccggnaaa 420

ttcntttgct ggaaatttgg gtcaacaacc cacttcaaga ccatcagaan ttgtctgcgc 480

ctaagaacna 490

<210> 4893
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-B1

<400> 4893

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gagagggagt gtcctggtgt tgtctcatgt tctgacattc tcgtcttgtc cgcaagagaa 120

ggcatcgaag cagtaggagg accttatatt cctttgaaga caggaaggag agatggactt 180

aaaagcagga cggatatgct cgagtcatat cttcccgacc acaacgagag tatctccgtc 240

gttcttgaaa agttcaaatc catcggtatc gacactcccg gcctcgtcgc cctcctaagg 300

gtcacacanc gttggaaaaa ctcactgtgt caaactggtc catccgtttg tacctgaagt 360

ggacccgtcc ntaaancccg gacaagtcct cacatgctan acaatttcct gaatccattc 420

tganccaaag ggggtc 436

<210> 4894
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-B2

<400> 4894

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ttctcgcgcc gccttcagcc gattaatctc aacggacaca actccgatca caatcgagac 120

ttcgcttcct ttcacagctc acttatgtga tccancgtca cgctccgtcg aatcatcgag 180

tcaagagctt ctcgatttct tcanaaccat ggcgttgatg cganntangg aaatcgcagc 240

cgattcgcat tacatngcga agctaatccg acggttttgt catctctaca acgncaagaa 300

cctgtagcta taggcatgga agctgcgaat acnacgaaag gacncganta ntactggnta 360

accgtgattn actgtatttc ctaaggtcgt ngtggttcgc ttcatgaggt ttcccaaaac 420

ttaa 424

<210> 4895
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-B4

<400> 4895

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gattggggcg gattggctcc agagatactc atcaacatca tttcaaggct tacgattcag 120

gagctatgga ccggtccgat gttcgtccaa aaatcgtggc taactgtttg cagagatccg 180

tatctctggt ctatcttcga tctggagcca tggttcgatt cctatcccga gtcgactcac 240

ttgtggtccc ctgagttcga gcagaaggta gacttaatgc tacgatcagt cgttgattgg 300

agcgaaggtg gtctcactaa gattcgcgtc cgccattgca gcgaccacgc tctctcttac 360

gcagccgata gatgcccgaa tctacaagtt ccttgccatt agaagcaatc ctaacgtgac 420

aagacgcatc gatgacnaag atancgtttc cgtgcaagga gtttaaagga acttgatatc 480

aanttactgg tcacaagata ccn 503

<210> 4896
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-B7

<400> 4896

cgctagaaca ataactttga tcgttcttct tcttctcnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnccatcaca aaggtgattc gtcgncttca 180

tcatcatcag atgacgacaa cgagaanaag tcttcgtcat cgtctccaaa gtctttgaaa 240

tcgaangttt atcgtttgtt cggaagagag agacctgttc ataaggttct cggcggcgga 300

aaancggcag atatanttac gtnggaagac aaagaaaatg tcaggangtg taatttggcc 360

gtgctacaat tgcaagggtt gcaatttgaa attgattgga gtaacancct cctaatccgt 420

tangtccacg ttaagattcg ttgctcctgc ngtgttgttc 460

<210> 4897
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-C11

<400> 4897

ncgactctct ctctctctca caaatttttg atctatttca ctctccttgt cgtggctttg 60

ttttgaccgg aacattattc cggcagctac ccaagacctc actcctcgac tatttagttt 120

cctcgctgtc actatctcaa cgccggagga aaaacttaaa caaagagtga taggtcgaag 180

tgacaccggt gttgtaatcg gtaaacccag aagaagccct aagagtaccg tcgatttttg 240

tgctcntatc ttcttctgct caatctattt cgcgcacatt gtacagtgga aagtaacagt 300

agctttgcat gagcctgatt ttcagataaa caaagatgag tcacgataga agtgttaacg 360

tttcgcatga tgctgtgatt gctaaacccg ancgtggcac tatgcttcag agcttctcac 420

ctaggagcc 429

<210> 4898
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-C2

<400> 4898

ctttgctaca ttatcctctt catcatgcat acagacaaga agaacaagat gaagatgctt 60

ggtttgcttt ttgtggtgtt tgctgtggtt ggagtgattg tagctggaag tttgcagata 120

cctgaccagc tcacacggtg gtactttgtc gggttcttga gctgcggttc tcttgtttca 180

atgtttgcct cgccgttgtt tgttattaac ctagtgattc ggactaagag cgttgagttt 240

atgccgtttt atctctcgct atcgactttc ttgatgagtg cttccttcct tctttacggg 300

gttattcaac agcgaatgcc tttgtttaaa caccaaatgg nataaggaac gaatccntgg 360

gaattgtgca nctgggcttt gtaactgtta ctaacacaag gaattcnaat agaaagaaga 420

aacaaaaaga gcctttgaat gggttcctaa cntgtgaagg ttccccccaa aaa 473

<210> 4899
<211> 551
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-C3

<400> 4899

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cataaccaac agtatcagca atggaacttc gccgtcgtct gattgttgta actcgctgag 120

gtctttgacc accggaggaa tgggatgtct ttgtcnaatt gtcactggaa ctgttccttt 180

caatattcct attaancgca caaccgctgt ctcacttccc cgtgcttgta acatgcctag 240

agtcnctctt caatgccaag ccaatattgc tccagctgct gctcctggac ctgctgctac 300

atttggacca tcgatgtctc caaggaccaa gagacggntt caattgttcc aagagccaaa 360

tccggnaact caaacaccaa cagtctgata caaccccgac caattacaac aacccgttcn 420

aacnggtggg agctcccaac attcanaacn aacgggnggg aancaacaan ttcgaacctt 480

tctgaanact cccttcaatc ccggcctaac gcaaatcctc aaacaatcct ccnttccccc 540

ttccttcaag c 551

<210> 4900
<211> 562
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-C5

<400> 4900

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aaacgacaag aagaaagaaa cacagttgca ggagagaaag agatatggct gtccggataa 120

acgcgatggc ggtgacgttt gtggcgcacg cgctggcggt aatagcggcg attatggtac 180

tggtttggag tatcagttac agaggtggat tggcctgnga agctactaac aagaatctca 240

tcttcaatct gcatcctgtt ctgatgctca tcggatttat aatcttggga ngagaagcca 300

tcataagtta caaatcgcnt ccgctggtga aaaccagttg aaagaagttg attcaacctt 360

atactccaat gccaattgct ctggctcctt ggggaataat ttggcatcct gttgcaaacc 420

cttttaaaga aaccaacnaa ttgaaaaagc caattatccc ctnaatcctc ctaacaagtc 480

ctccaaattc cctgggaatt tgggnaattt gggannтcca ntttcccccт tttaaagggg 540

ctttccaaat tggggttgtt ac 562

<210> 4901
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-C7

<400> 4901

gactatttta tggtggtgga gctggcatga ttggaaatga taattttggt tcgggtaacc 60

ctaatgctga cagaagaggc agtcgaggaa gggctggtgg ttcctatctt ccttctggcc 120

cacctaatgg tgctagacct ggactacacc cggcagggta cccgatacct atggttccac 180

tttcaccctt tcctggtggt cctccttctc agccatacgc tattccaact cgtggacctg 240

ttggtgctgt tcctcatgct cctcaacctg gaaacatggt tttgganctg gtcgtggaac 300

tcagttgggg gcaccttccg caacaacaan ccaccaanat aatgttggaa cattggccta 360

attaaacttc ccccttgata tccgaataac caaccttaac tggtggtccn catcccaacc 420

tggatatggn accaat 436

<210> 4902
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-C8

<400> 4902

nccaaaatcc tcgnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnataatgg 60

cgtcgatccc tccgccggag cttgacaacg actcactggc gtcatcgccg agatcggagt 120

acgatagtca gccacgcgta cggttcatgt gtacttttgg aggaaggatc ttgccacgtc 180

cgccggataa tcagctctgt tacgtcggcg gcgataatcg catggtcgct gttcatcgtc 240

acactacttt cgcctctctc cttagtaaac ttgctaaact ctccggtaaa agcaacataa 300

gcgtgaagta ccagctacca aacgaagatc ttgacgcgtt gatttccgta tcaacggacg 360

aaagatgttg agaacatgat ggacgaatac gaacgcgtcg cacanaatca aaacccangc 420

gcctctcgtc ntcgtccttt tctcttaaca aaaaagtcgc cg 462

<210> 4903
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-D11

<400> 4903

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agaagaagaa cttctctgca tcaatggcga tctccaagct ccatctactc ttccttctct 120

cagtctttct ctcccttcat cctcttgttc tttccgacac cgccggtaat taactctctc 180

atttcccgtc aatgtcttct tggttattca atttaggttc ttgaactcta tcgatcgtaa 240

tttgtttacc tagatctggt ctgaaatcgt tgaatcttct taattcaagc ttagttcggt 300

tcttgatttg tgtgtcattg tgtgttctgt tctgtttcga atctttttga atcggatctt 360

gatttttgtg tgtgttccgt tttccttttg gatatacaca agatgaagaa agaagttcct 420

cctacangna acaacaagta caagagcaac actaaaccta acaan 465

<210> 4904
<211> 533
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-A4

<400> 4904

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tctcttcctc tctctttctc ttctcttctt cctcntcatc ctctcaccac acatccttct 180

ctcttcctct ancctcattt ccaccgccga tgacctagac gacctctctc tcttccaccg 240

cgccgtcgtc tcttcctcca ccaacaacaa ccgtcgtctc atctccctct ctccaaatcc 300

acccccaaag atcgctttcc tcttcctaac aaactccgat ttaaccttct aactctctgg 360

gaaaaggctt ctccaaggnc aacaagatnt ctacaacgtt tacatccacg caagattcaa 420

ncctcctccg gtctcctcct ccttctcgaa ntccntcaat caaatcaaan ggctaaagtt 480

caatcccngg gngaagaagg aaacggnaag gaagctttct ccggaacgtt taa 533

<210> 4905
<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-F3

<400> 4905

tcccacggtc acaaatccgg gtcgacccac gcgtccantg ctttgaagtg aaatcagctt 60

tggctatggc ttcttcgaca gctttgtctc tctcatggag ctcctctcct tgttggtcac 120

acagcttcaa tggcggtgca aatgaaaccc taaaagtatc tgagcgaagg ttcaattttg 180

aagttgtttc ccagaagaaa gctaagaaac ttcgcaaggt aattttgaaa gaggatgtga 240

cggatttggg taagcaaggg caattacttg atgtgaaagc tggatttttc agaaacttcc 300

tcttgcctac tggaaaggct cagcttatga ctccacttct gctcaaggaa ttnaagatgg 360

aagacgaaac ggattgaagg aagagaaagc aaaagggtga aaagaaagaa ggcacaacaa 420

ctgggccgat ggtattccaa aaccgttggt gcnttcaagg ttaaaccnca aaggcggtaa 480

aggcaaactg at 492

<210> 4906
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-F4

<400> 4906

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gagcacggtg aagggtctga gagaacgtcc tccatcgtct tactctctca agatggagtc 120

tttcaacaca ctcatgaagt ctgtttacac tgagagatac gaatctcgtc cttttagggt 180

cggtagatac aactggacgc ttgttgtgta tccgaaggga aacaagaacg ataacggtac 240

agggcacatt tcgctatacg tcgtcttaga caactcaact ctcacctctc aaagtgaaga 300

ggttcatgta gatctcagat tttacgtatt caacaagaaa gagacgaagt actttacgat 360

ccaagatact gatgtatggc gattcagtgc aatcaaaaga atgtggggat tttctaaggt 420

tcttcctctg attacgttta acaacctaaa aaatggatac ctttatgacg ttgaccat 478

<210> 4907
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-F6

<400> 4907

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atttgcagcc gtcagatcgg cgtcatggag ctccgagtag tagcggcggt gttagtggtg 120

gtgatgagct gatcagaact tataaaggct ggaaaggcaa taacgtgttc ttccttggag 180

gaaggctcgt gtttggacct gatgctcgat ctattctcat caccgtcttc ttaattacag 240

ctcctgtcat tgtattctgt atttttgttg gcagaaaatt tatcgatgat tttcctcacc 300

atagaggagt atcagtttta gctgttgctg ttggtctgat tttattagat ctagtatttc 360

ttcttctaac ctccgcgaga gacccaggga taataccacg taatctgtat cctcctgaac 420

caaanaataa tgaaggca 438

<210> 4908
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-017-Q1-E1-G1

<400> 4908

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gaatacgaaa aagaatcatc attgtcagca tccgtaccag tctctgaaga aggaaaggaa 120

gttgacgtaa aggttgatac agtagattct gaatcaaacc gttctattga catggaacat 180

gattctggaa cagatcatca agaagaagaa gcaaatggga aagaagatcc aacggttgaa 240

aatctggctg ttgattcttc ttgtttggac attactactc catctccatc tgctgctaca 300

gagttcatac ctcaggagaa cgaacgttca gacaccgagt ccaaacctct ggagaaaaga 360

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ccctggagaa agaacatt 438

<210> 4909
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-G12

<400> 4909

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tgggtcctaa tgccacggcg gcggccaact acatctgtgg ccagttaggc gacgtcaaca 120

acaaatttat cgacaccgct ttcgctatag acaacactta ccttctcttc tccgcctacc 180

ttgtcttctc tatgcagctt ggcttcgcta tgctctgtgc cggttccgtg agagccaaga 240

atactatgaa catcatgctt accaacgtcc ttgacgctgc agccggtggt ctcttctatt 300

atctgtttgg ctacgccttt gcctttggat ntccgtccaa tggtttcanc ggtaaacact 360

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aatgggcctt tgcaatcgct gcggtggaat cacaagtgg 459

<210> 4910
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-G6

<400> 4910

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gttgttttag tcctagtgac cattgcttcc atattctcca catttgccga ngccaatagg 120

ggctttgggt ggggttgggg tgganactcc aacaattcaa nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnccaact attcaagtgg ttcagcttca 240

accccaaggt caggatgggg tttcggctct agtcnaaacg gctcaagctg gggttggggt 300

tngggcngng ttccaacata canacanctc aaggtcnggt tgctccggtt gggcntgggg 360

ctaaaanaat acagctcggg atctgcgctc gggttcggct gggganatgg a 411

<210> 4911
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-H2

<400> 4911

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ctggactact tcagctctct gactcatcag aggactcttc caacatttat gtttttcaga 120

tttccacgac gaaccaatca actatagaca ttgcctttgt ctctggaata aaagaagaaa 180

cgtccaacat ggaaaatcgt ataatgagtc ttacaggttt gccactctct agtctacttg 240

aagagaaaca tatagcattt aatgctaagt tcaatgaatg cttcaacctt tctgacaagc 300

ttgatcctga aactttggtg gttggtaaag cagcaatcgg gaacatgctt ggaggcattg 360

gttacttcta tggtcaatca aagattcaat ttcccaaaag tcctctggct aaaagtgagg 420

atgatttctt gctanat 437

<210> 4912
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-H3

<400> 4912

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aaaagctttt tcgaatctcg cttgcttttt gtcgccatga gtctctttgg gttaggaaga 120

aatcagaaga ctttccgacc taagaagagt gcaccttctg gaagcaaggg tgcacagctt 180

cgaaagcata tagatgccac cctaggaagt gggaacttga gagaagctgt aagacttcct 240

ccgggagagg atgcaaatga atggcttgct gtaaacactg tggatttctt taatcaggtg 300

aatttgctat atggcaccct taccgagttc tgcacacctg ataactgtcc tacaatgact 360

gctgggccaa agtacgagta tagatgggca agatgggtgt acaagattaa agaagcccaa 420

ccaaggtttc tgctccaaaa ttatgtcgaa gtacnttgat gggattggga tcaagaccca 480

actcgatgat gagacttt 498

<210> 4913
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-H4

<400> 4913

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tcttcatttt ccgcgtgttg attggtacaa aggtttaatc aaatggttgg aggaggagtt 120

atccagcaaa ttcttaggag gaagcttcac tcccaatcac ttgcaactcc ggttttgtct 180

tggttttctt cgaagaaagc tcatgaggat gctggttctt ctggtgtaag agcacttgcc 240

ttgttgggtg ctggtgttac aggactgttg agtttttcta cagtagcatc tgctgatgag 300

gctgaacatg gattggagag tccaaagtac cttgggctca tgatgggaat cctanctcat 360

atgancatgc ctcgattcgt cntgggcaac aagtttatca acaaatctgt gcatcatgcc 420

aatcaaagtc nccgatttca aaaccgagaa cttggngggt gtcccccct 468

<210> 4914
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-H9

<400> 4914

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aatttgncaa cctttnggcn acccnaaaaa ttncccnggg gaaattggtt ngtaaaaaaa 120

cccttcaaca aagaaaatgc tcaaaggtcc ctgaacacca aagttgctgg tcacattgct 180

agtgatggga agctcggtcc actcgtagat gaccaaggcc ggttcttcaa gccacttcan 240

ggagattctc gtggcgaaca cgaggctaag ttctatgagt ctttcacatc gaacatgaag 300

gttccagatc acatccatag atacttcccg gtgtatcacg gcactcagct aattgaagca 360

tccgatggat ntggcaaact tcctcaacct ggtcctgatg atgttgtttc aaggtacgca 420

aanccgtccg taatgggatg ttnaaattgg atttaaggac atnggacccc gatgtntcaa 480

aagaata 487

<210> 4915
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-A10

<400> 4915

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tctctggatt ttctttctgg ggtgaatttt tgcgcanaga tgggttcggn gaacaacgag 120

tacgagtttc tgagtgagat tgggctgact tctcacaact tgggatctta cgttgctggc 180

aaatggcaag ccaacggacc tcttgtttca actctcaatc ctgctaacaa tcagccaatt 240

gctcaagttg tggaaacttc tcnagaagat acgaacaang nttgaaaagc ttgccaagga 300

acaactaaaa taaggatgca agttangggt cccaaagana agtgatatcc tcaagacaaa 360

atgggggatg cactaaagat tcnaaacttt gactaatcnt gggcgtcctc cntccccttg 420

aaa 423

<210> 4916
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-018-Q1-E1-A11

<400> 4916

tttangcgcc agtacggaan agnatcccgg gncgacccac gcgtccngaa aaaccctaga 60

aaccattact tatctctccc actggctctg tctctgtcaa atctcggatc gatttcgcgg 120

tgggctcgat tcgtgattcc tcaaagttca tcatccctaa ggcactgtca cttaatggca 180

tcggaatcga aaagctacgc taggagagat cgtcttcttg agattgaggc cactgttcga 240

aagtggtggg aagacgagga tgtattcaga gccgaatctt gtgagaatct tccaaaacca 300

ggagaaaagt ttttctcaac cttccctttc ccgtatatga atggttatct acacattggg 360

catgcctttt cattgtccaa ggttgatttt gcttctgctt accataggct aagaggagct 420

aatgtgcttc ttccatttgg tttccattgt actggtatgc caattaaggc ttctgcn 477

<210> 4917
<211> 513
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-A3

<400> 4917

cggtagcgga aanatcttgg gtcgacccac gcgtccggaa aacaaaaaaa acaatggcgg 60

ataagctcac tgacgatcag attacagaat acagggaatc tttcaggtta ttcgacaaga 120

atggtgatgg ttccattacg aaaaaggagc tcggtaccat gatgcgttca atcggtgaaa 180

aaccgacaaa agctgatctt caggacttga tgaacgaagc ggatttagat ggtgatggaa 240

ccatcgattt ccctgagttc ttgtgcgtaa tggctaagaa tcaangtcat gatcaagcgc 300

cgcgtcacac taaaaaaaca atggcggata anctcactga cgatnagatt acaagagtac 360

aaggaatctt caaggttant cgacaagaat ggtgatgggg tccaatacga aaaaaggact 420

cccttacgtt atgttttccc cccggtaaaa aaccggncna aaacctgttc ttcangacat 480

gatgaacgaa attggattta aatggtgatg gga 513

<210> 4918
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-F12

<400> 4918

gcgcnccgta cggtcaaaaa tcccgggncc naccangcgt ncgaaanaaa aacctttttt 60

cccncttcan gcttagccta tcatgagcaa catccctaga tctctcaccg actcagatct 120

ttctctattt actctcataa tctcttctgc tgttgatcct tggccttttt ctatcaccgt 180

tttttagcat caacaaaact caccggaaaa tctctaacaa ccaccaccgt ttaacacttc 240

tcttcctcct cgtcgatcgt ttttaaacca atctttgtgt ttcttgtttg gtttttcggt 300

gaaaaagatt ccttcttctt aatgggtttt gaagaaaacc aaaaacagag tccaaaacag 360

agtccgaatc atatcaagca tatggtgttc aagttccact tccatgttcc tcatctccac 420

atactccctc atcatcaaca ccaacaccac catgatgttc ctaaan 466

<210> 4919
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-D2

<400> 4919

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tcgattgctt caattgaagt ttctccgatg gcgcaagtta gcagaatctg caatggtgtg 120

cagaacccat ctcttatctc caatctctcg aaatccagtc aacgcaaatc tcccttatcg 180

gtttctctga agacgcagca gcatccacga gcttatccga tttcgtcgtc gtggggattg 240

aagaagagtg ggatgacgtt aattggctct gagcttcgtc ctcttaaggt catgtcttct 300

gtttccacgg cggagaaagc gtcggagatt gtacttcaac ccattagaga aatctccggt 360

ccttantaag cttcctgggc tccaaagtcc ccatcaaatc ggattctgct ctcgctgctc 420

cgtctgaagg gaaacaactg tantggacaa cttgttgaat aaccgatgac atcaaattac 480

atgc 484

<210> 4920
<211> 482

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-D5

<400> 4920

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ccctcttcac aacaacagct tcgtattcgc tcatcttctt cgctttctga tcttggaaat 120

cgcaggcatt gttcgtctac tcgaggattt caattttggt catnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna 240

ccggcggttc gtatttccga cgggaatcta atcatcaaaa accggacgat tctaaccggt 300

gtaccagata atgtcatcac gacgtcagca tcggaagctg gaccggtaga aggagtcttc 360

gtcggagctg tatttaacaa gggaagagag tnaacacatc gtaccgatcg gtacgcttcg 420

caattcccgg tttaagtcct gttccggttt aagctctggt gggatggcca anagatggaa 480

aa 482

<210> 4921
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-D6

<400> 4921

nctcaacact atcctcttct acattttcca acgatggcct caaacgcact ctcgtctttc 60

accgccgcta atcccgctct gtctcctaag ccactactcc ctcacggctc tgcttctccg 120

tcggtttctc tcggcttctc caggaaagtt ggcggcggca gagcagtggt cgttgcancg 180

gctacggtgg acacaaacaa catgccgatg accggagtcg tgttccagcc tttcgaagag 240

gtgaagaaag ccgatctggc cattccaatc acatctcatg cctctctcgc tccgcagang 300

tttgccnacg ctagcgaagg actcattaat gaacaantca atgtggaata caagtctcca 360

atgtgtacaa tcaatgtacg catactttga caagacaacg ntnccaatga aggantagcc 420

aaattttcaa ngaaaca 437

<210> 4922
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-D7

<400> 4922

ggtaccggaa catgaaattc gcgggncgac ccacgcgtcc natcgaaaag aatacaagca 60

gtggatcttg agaaccattg agcaaacttg gaatttgttt aacaaaaggt tcattgcgct 120

atgggatcaa aacaaagatg gaccaggcga agcatacctt gcagatatct ataacaatac 180

cgaggttttg aagtttgttc aagaaaacta catgaggaat ttgttgcatg actcactcgg 240

attcggcgct gcaaagatga ttaggagaat tgtgggagtg gcacatgttg aggactttga 300

atcaatcgaa gaagataagc gaagagctat ttgcgagaga agtgcactcg agtttgcgaa 360

gatgcttctc aaggaaagga naaagtttaa gaantatccg gtgaaanttg ttcaagcaat 420

tccaacaaca aagctaaaga acaantttaa aatggttcnt ccggctgaag ttcttgaaaa 480

gtcctggttt t 491

<210> 4923
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-D9

<400> 4923

gtaccggtca naaatcccgg ggccaaccaa gcgtccgaat cccctccgng ggcnctctct 60

caagaacaac nnttcctcaa cnatttcaaa attnncgggg ttggtttgaa ggcaactaac 120

ggtcgtccct ctccgtaaac cgtctccaag gatcatcaan cttctcaatt tccgaaagca 180

ttttattcnc taataggtaa aagttatgta attttcgttt acaaacaatg ttgaaattgt 240

agaagttgga atttagaaac tgctttttat caattcatta gcttttgtag tatagtcaat 300

ggtgggattc attagctttt gactcaagat ataaagctta atatatattg cataccaagt 360

gttcgatgat atgcctaaat gaantctgtc cacaaaactc cttgaatttg ngtttaattt 420

caaagaaata tgtaatgctg tgaatccaaa tagtagagtt tcagtcaatt ct 472

<210> 4924
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-E10

<400> 4924

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tcngatgaaa ttacnaacga cnctgcnccn ctttatcgga gctctcatct tctccggcgc 120

cggtactgtc agatccgatg cctccgacca ccgttacaag ggacggtgac tccgttcctc 180

tctacgccaa caaggtcggc ccctttcaca atcccagtga gacgtatcgc tatttcgatc 240

tccccttttg tattccagag ggtgtgaaag ataagaagga agctcttggt gaggttttga 300

atggggatag gcttgttagt gctccataca agcttaactt tagagatgag aaagactcag 360

aggtgtactg taaaaagaag cttaatagag aagaagttga acactttcga aagaactgtt 420

gaaaaagatt aatactttca aatgtataag atgatttgcc taattgggga ttcattggga 480

aagt 484

<210> 4925
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-E11

<400> 4925

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cgaatccaac tactggatgc cagaagaagc tcgagatcga cgatgaccag aaactacgtg 120

cgttttacga caagagaatc tctcaagaag tcagtggaga tgctttgggc gaggagttca 180

aaggatacgt tttcaagatc aagggtggtt gcgataagca aggtttccca atgaagcagg 240

gagttttgac tccaggccgt gttcgccttt tgcttcaccg aggaactcct tgcttcagag 300

gacatggaag gagaactggt gagaggagaa gaaagtctgt tcgtggttgc attgtgagcc 360

cctgatctct ctgttctgaa ccttgtcatt gtgaagaaag gtgagaacga tctcctgggg 420

cttaccgata ctgagaaacc aagaatgaga ggaccaaaga gagcctccaa agattcgtna 480

a 481

<210> 4926
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-E12

<400> 4926

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aanataattn aacncttgtt tttttcaaaa gtcatagtcc ttgaacaact tcttaacttg 120

ttcaagcgta acaaacaaaa ccaccgtgaa cggtgcttgt ctcgaaaccg tcgggataaa 180

acctttatac aaagacataa tcccttccgc tttcaccgtt ttcaaagcac aatcaaccgc 240

tcctttatac ggcggagcaa ctccagccac caccttcata ttcatcactc tcgtcttaat 300

cacatcaaca ggattactcg caacgctcgc aacaaacccc gccgcgaaac tcgccgacac 360

atgagtccca agcccatctt tgaacaaccc tttctccaaa atcgtctctt taacagaatc 420

atacgaagcc aactgcgatg acgtcacaaa gcattgcctg tttatcgtca 470

<210> 4927
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-E4

<400> 4927

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gcctgcttct actcgagttc cttctcagag aattacacct cacagtgttc cttctccaag 120

accaagttca ccaagaggtg cctccccaca agccatctct tcaaagccgc cttctccaag 180

agcagagcca ccaacattgg acactccaag acctccctct ccaagagctg cttctctaag 240

agcagaccca ccaagattgg atgctgcacg acccaccacg cctaggcctc cttctccact 300

agcagacgca ccaagattgg atgctccacg acccactacg cctaagccgc cttctccaag 360

atcagacccg ccaagattgg atgctccaag acccactacg cctaaagccc ccttctccaa 420

gatnggtttc tcctaaggct gtngagccgg cgggaagatt gtttataaga acaagaagcc 480

aacgcttccg gtcaaa 496

<210> 4928
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-E5

<400> 4928

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aaagcaaacc tgaaagacgt cccacaaaac acatgcccac tccagctcaa tggactaacg 120

cattcaatcc tgcattttcg tattatgtct actattgtta tgctaacctc tatgtgttaa 180

ataagcttcg agagtcaaag ggcatgacta ctatcacgct acgaccacat tctggagagg 240

ctggtgacat tgaccacttg gctgcaactt ttcaaacatg cnatanantc gcacatggat 300

tcanccngca aattcncggt gtncattatg gtaaacccnc caatggtcng gaattcccag 360

ngcaaaatcc ttgttnnant acacggacct tnctgttttc aaaaggcnag tttcttgtna 420

ggagcccttа atc 433

<210> 4929
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-E7

<400> 4929

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gtattgggaa tgcgtttttg agctgatctt atacgtctat tcaggtttag ctcagtctag 180

aattggttgg cttgggaaag gtcgatgaag aacgggatgg ctgagtgcag cgtatgtcgt 240

tcaaggttgg tttctcccag tagcaaagct atttcaaggg cttatgacaa ctacaactac 300

aagattagag tatcctcaaa acaacgagct ctcaatgtct ttttggtatc ggtgactgca 360

tgctagttgg tctacagccc gtctaagtgt acatgtccaa aagtggatgg aaagttcaaa 420

cttaatccta ttaacgtca 439

<210> 4930
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-F1

<400> 4930

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aatgtgattt tgaggatctt gagaatttca acttcattgt ctgttagtct ctcttgtgaa 120

tttctttgga gatgaaaaga ttcgagaggc caagaacttc gattcactcg cagccaagga 180

ccagtaccag ttcaggtaag aaagatcaga agccgcgtag tagtagtagt aaaggatctg 240

gtgtgaaacc gttgaatgcg gctcagctgg tttctagagt tttagatgca acaaacaagc 300

tctgagccct tccttcaagt cccctggtta actgattcaa actaactggg atnaagaagt 360

ccctcctgaa agtcctatga gaaatggtga aatgttgcat tacaatggga tgatgcctaa 420

tgagaaatcc aagaactgaa tggcaaanct agtgggttgt gaanaaaaa 469

<210> 4931
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-F10

<400> 4931

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anaacccccc ttnccccccc tnnattngta aaatttgaaa atttggaagg aaaaaaagga 120

agaaaaantg ggagaagatg aagagtatgc aaatggggtg tgattgggag cattgtttct 180

atcaagttgc atcttctgtc tccattgtca tttgcaacaa agctttgatg accaatcttg 240

gtttcccttt tgcaacaaca cttactagtt ggcatttgat ggtaacatat tgcacacttc 300

atgtggcata taaactaaac ttctttgaga ataaaccaat agacatgaga actgttgttc 360

tctttggcct cctcaatggc atttccattg gtctcctcaa tctcaagcct cggctttaat 420

tccatcggct tctatcaaat gaccaaactt gctatcatac cattcactgt tcctttaaaa 480

ancctcct 488

<210> 4932
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-D12

<400> 4932

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tccggagaag aatggagagt acaggcaaat gcttattcaa gccatccatg cttgtgcagt 120

taagttcccc gaagttgcaa gcacagtggt ccatcttctg atggatttcc tgggagatag 180

caacgtggct tcagctcttg acgtggttgt tttcgttaga gagataatag aaacaaatcc 240

caagttgaga gtttcaatca tcaccaggtt gttggacacg ttctatcaga tccgtgcagg 300

aaaggtctgc ccttgtgcac tttggatcat tggtgagtat tgcctatcac tttcagaagt 360

tgagagtggc atttcaacta ttacacaatg ccttggcgaa ttaccatttt actccgtttc 420

tgaagagtct gagccaactg agacatcaaa gaaagattca acctaactcn tccgccaagg 480

tgt 483

<210> 4933
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-B4

<400> 4933

gaaaaaaaaa aaaacttttg tctttccctt aatttctcta attttccctc gatttctctg 60

gcatcaacag tctcattctc attgatcttt ctttttttgta gcgagaaaga tncatttttt 120

tcggttcgtt ctcttctggg ttacgaatca aagagctaca cagacacaga cacacactgt 180

ttcctgtttc tccccggatt gcaaacagaa ctagggtttg ttttcacaaa ttttggatct 240

ttttttttgaa gaaaagaaca aaatttggat gaaaggaaac cagaaagact cgtcggaaaa 300

accgatatgg gatcggagct catcaagtac atctataccc ggaatgtggt ctttaacccg 360

acccggtcca aaacttaagg gttggcttat ctgttcattg tcttcactta cattatcnac 420

atgc 424

<210> 4934
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-B5

<400> 4934

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tagctgcggt taggctagct aactgtgcag ccttcccaat ggttttcaaa gctgccatcg 120

agctcggtgt catcgacact ctctacttat gctgctcgtg atgacgtcac cggatccagt 180

tccttcctca caccttctga gatagctatt aggctcccca caaaacctan taaccctgaa 240

gcaccagctc tgttggatcg tattcttcgn ttacntgcta gctactccat ggtcaaatgc 300

caaattatcg atggtaacaa gagtctacat cncananccc attttgtccg ataattcctt 360

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<210> 4935
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-B7

<400> 4935

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caaggccatt gaggaggtag aagaaaaatt tactagcgaa tcagactcta ttgcagactc 120

ctctaagtta gaatctgtgg ataccagtgc tgtagagcca gaggttgtag ctgccgagag 180

tgggagtgaa ccaaaggatg tggaaaaagc caacggattg gagaagggta tgacttatgc 240

tgaagtaatc aaggcagcta gtgcagtagc tgacaatgga accaaagagg aggagagtgt 300

gctcggtggc atagtcgatg atgcagaaga aggtgttaag ttaaacaaca aaggagactt 360

tgtggtggac tcatctgcta ttgaagctgt gaatgtagat gtggcaaagc caggggttgt 420

tgttgttgga gacgtaaggt gagtgangtg ctggaaactg atggca 466

<210> 4936
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-C10

<400> 4936

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gacccgtcgg tgattcttaa tctctcctct ctgttcttct ccgatcaaac ctcattccaa 120

agaaacaaac catggatctc caaccagaag agcttcaatt cttgacaata cctcaactac 180

ttcaagaatc aatctcaatc aagaaacgat ctccaagaac cttctacctc ataaccctct 240

ccttcatctt ccctctctcc ttcgctatcc tcgctcactc actcttcact caaccaatct 300

tagccaaact cgacaaatcc gacccaccaa actcagatcg ttcacgtcat gattggactg 360

ttcttctaat cttcaagttc agttacttga tnttctcctt ggcttcctct ccttctctca 420

accgctgctg ttgtcttcac ggtcgcttct cnttacaccg ggaaagcct 469

<210> 4937
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-016-Q1-E1-C12

<400> 4937

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tcttccccac tggctccttt gagagaatgg aagaggaagg agatgtagca actgctttta 120

ccatggcaag gattgtctct aatatcccca tttcacgcgg tggtccgact agtgttgtca 180

tctatgacat tcacgctttg caggaaaggt tttactttgc cgatcaggtt cttcctttgt 240

ttgagactgg aatcccgttg ttgactaaac gccttcaaca gcttcctgaa actgagaaag 300

tcatagttgc atttcctgat gatggagcct ggaagcgttt ccataagctg ttggatcatt 360

atcccacggt tgtgtgtaca aaggttcgtg aaggcgataa gagaatagtc aag 413

<210> 4938
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-C3

<400> 4938

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ttgcaggana tgatgctccc agggctgttt ttcccagtgt tgttggtagg ccaagacatc 120

atggtgtcat ggttgggatg aaccanaang atgcatatgt tggtgatgan gcacaatcca 180

agagaggtat tcttacnttg aagtatccta ttgagcatgg tgttgttagc aactgggatg 240

atatggaaaa gatctggcat cacactttct acaatgagct tcgtattgct cctgaagaac 300

aaccctggtt cctccttaac ccgagggctc ctccttaaac cnaaaagggc caaacaataa 360

gaataaagaa tggaactcca aaattcaatg tttttggana acccttttaa antcctcccc 420

ggctaatggt tnntgttcgc ccaatcccaa aggcctggtt tctcctcccn 470

<210> 4939
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-C4

<400> 4939

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gtcgccaatc aanaaggtca aacactttac ggaccttgac cagaaatgtg tcaacacgat 120

ccgaacgctg tgtgcggatg tcgtgcagaa ggcgaacagt ggacaccccg gggcgcccat 180

gggatgtgcc ccgatggccc acgttctctt caccaagtgc atgaagttcg cgccgtccca 240

ccctcactgg gcggaccgtg atcgctttgt tctctctaac ggccacggtt gcgctctgtt 300

gtatgcgctc ctgcacctca ctgggtatga acgacccacg atggacgact tgaagaaatt 360

cagacagctt tgactcggtc acanctggcc aacctgagcg caaccacggt cttganggta 420

t 421

<210> 4940
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-016-Q1-E1-C8

<400> 4940

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ctccgccatt gcttctcgac ttgcgtctga tatcaccggc cgagtcgagg attgaaacgg 180

attcgggtca gatctggaga cgaatcaatt aatgaataat taatcttttt tttcttaatt 240

cagtgttctt gtaggatgca gaccatcttc tatcggtgct ccttttttcat ttgaaccgtt 300

ggcttgtgtt tggtctttgt gtgttgtaaa ctctaagttc cctttctgtt tcttctgtaa 360

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cctaa 425

<210> 4941
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-C9

<400> 4941

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ggtcacccac cgctctaact tcccttccac cttcaccttc ggcgtcgcca cttccgctta 120

ccagattgaa ggaggttgga atgaaggtaa aaagggacca agtatatggg ataagttcac 180

tcatatcgaa gggaagattc ttgatggaag taacggcgat gttgctgtgg atcattacna 240

tagatacaan gaagatgttg atcttatang acaattagga ttcggtgctt acagattttc 300

tatatcttgg tctcgaattt tccctgatgg cctgngaact gaagtcaatg aanaagnatt 360

gctttctaca acgatcttnt taatacacnt cttgaaaaag gtattcagcc gtatgtaact 420

<210> 4942
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-D5

<400> 4942

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gagaatgtct cgtttacgtg atcttagtct caacaactgc aataatctgg tatcactccc 120

ccaactttca gattcccttg attacatata tgcagataat tgtaagtccc tcgagagact 180

ggattgttgc tttaacaatc cagagatccg tctctatttc cccaaatgct tcaaactgaa 240

tcaagaagcc agagatctca tcatgcacac ttgtatagat gcgatgtttc caggtacaca 300

agtgcctgcc tgcttcattc atcgagctac ttctggggat tccttgaaaa tcaagttgaa 360

ggagtcgcct cttcctacaa accttgagaa ttaaggcttg tatcatgcnt ggttaaggtt 420

aat 423

<210> 4943
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-D6

<400> 4943

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gacagatgtt acctatgtag ctgaagccat tatacctta tttgaaaccg caaaagagtt 120

gatcttacgg aaaatgggag acgacttaga ggtgcaagag aagccggcgt tgattctatg 180

ccatgttttc agaagggttg atgaaccttc tcttctgtca gctgcatcta agtttgggtt 240

taagcttgca gacagatggg ctgcaaattc aaaggaatct cctattggga acatcattga 300

cagttggttt tccgaaaagg atttggtcgc agaaatcccg agttctgcgt tgcatattct 360

ctattttcag atggagtaac tatgtggtag aggagcaaat gttgattaac tgggagagtt 420

cttttatatt aaaaaatccc tcattgaatc ccaaatcaat gaatgtccta catgtattcn 480

tcc 483

<210> 4944
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-D9

<400> 4944

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gggcatgcgt gggttagaga aggcgggaat gctactgata tccctgtcga catttcagtt 120

ctgaacaact taagacaatt tgtgagatac agccgtctaa agcaatttgc tttaagggcg 180

cttgctagca cacttgacga ggcagagatc tctgacctca gagatcaatt tgatgcgatt 240

gatgtggata aaaatggcgt cattagtctt gaagagatga gacaggcact tgccaaagat 300

cttccttgga aactgaaaga ctcacgagtt gctgagatcc ttgaagcggt agttatattt 360

ttgttttcca ttgcaattgc atctctgggg gtatcagagg gagacgtagt ttcataatga 420

gccgttgtgt acttgtatcc ttgctggtca cagattgata cancactga 469

<210> 4945
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-E10

<400> 4945

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tccgaccacc gttacaagga aggagacacc gttcctctct acgccaacaa ggtcgggcca 180

tttcacaatc cangtgagac gtatcgatat tttgatcttc ccntcggtnt cccacatggt 240

gtgnaagata agaatgaagc tcttggcgag gttctaaacg gngatcggct agttagcgct 300

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agtaaagaan angtcataca gttcagaaaa gctgttgaga aggactacta cttcc 415

<210> 4946
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-E12

<400> 4946

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tctttctctc tctctccgac gatggcttcc ggtgaccaga gcaagaagag aaaacagcat 120

tatcgccctc aaaacagacc agtgaagaag aagggatctt ancctttgaa gccaggtgtt 180

caaggttttt tcatctcttg cgatggcgga cgcgaattcc aagctgctca ggaagctatt 240

aacgtcattg attccttttt cgaggagcta atacaaggga ctgactcgaa agtgaatcct 300

ggtttgtttg gtaatccaat aaacaaaaaa gttacatttt cgtatagcga ggatgaggat 360

gangaggaag atgagagtaa taatggcgag gaagaaggaa aacataggan atgggggata 420

aggcagtagt gagtgaangc ggtaatgatc taattgaatg agaaaagaaa 470

<210> 4947
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-B3

<400> 4947

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gatttctcga ccanatatta cgatggtgac ggcggatgcc anangcagng cancttcttc 120

ggnngcacga cggtgctcga tcaaggcgtt ggctangccg tgattcntgg ttttggtgct 180

ttctttgccg tnttcacatc ttttttggta tggttaaaaa aacgatatgt gggagctcgt 240

catacatcgg aatggttcan tacatcngna agatcgtttc gacaggactt attgcaantt 300

gtcattgtat cacattggac atgggctgng accatactgc aaagtttcaa acgtacatgg 360

nntatggggt tagtgggacg ttttggtacg ctagtggagc cacatacatg tgctgttgt 419

<210> 4948
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-015-Q1-E1-F12

<400> 4948

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tgatcgattt cacaaaccct agcttcggcg atcttaaatc tgcaaaaaat ctatggcgtc 180

ttctcctggt ccttttcttc acaaccagta cgatcagcag cactacgctc cgcctggtat 240

ctccgctcaa ccatctccgg tgactcagca gcaacaggat gtgtcttcct cttccgccgc 300

gactaacttg catcctcaag agaacgctgt cttatcccan gccaactctc aatctacaat 360

ccccccgttc caatcacaat cccggtacgc acancctc 398

<210> 4949
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-015-Q1-E1-F9

<400> 4949

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gtagagatga tgatgaaaac ttttccaagt acattcaccc gcgtgttaca anacattcac 120

ctaggactgt acctcgtatt ggggacagaa gaatcaggaa gatattggct tctagacatt 180

ggaaaggagg ttcaaggcat tcagatacga aaccgtggag aaattattac ttgcaccagc 240

agaggagcta tcctatcaag aaaaggaaaa actttgacca catatctgat tccgttactg 300

atgattaccg tatgcgtact aagatgcata gaggtagtag aaaaggtcaa ngggcatcct 360

ttgtggcaag cgactcccat gtgaaactac nggtnaaatc gttcaaaggt gcctgaacct 420

ttcaa 425

<210> 4950
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-015-Q1-E1-G11

<400> 4950

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ttcctcgttc gtcctctccc gtcgtctctc cgcactaaat tgatgggcac atcatctggg 120

tccaatcttc ctcaccagat gctacctcca cgtcagcaac tacaaacatc tctttcgctt 180

gtatcttcag atccccactt gtcacggtct aattctggca ttgtgcgtga atcaccagct 240

gaaagtgcta gctctcaaga aacttggcca acctcaaaat ctattatggg aaggaagaca 300

gatagcggaa agacagggcc tgactctcat gatcaacatg tgatccgcca tgtttccatt 360

gctgataagg tatcgctacg ggacatagct agagagagac ttgacatagt cgctganaaa 420

atgcatcgat taccagaaga atatctccan gagtttaaag aatgggncct t 471

<210> 4951
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-015-Q1-E1-G9

<400> 4951

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ctgagctcga tttggttgat aaacaaaggc ttcaagaatt ctaccggaat caatggaggt 120

tctggtaggt tctacgttta gggatcgtag cagcgtcacg acgcatgatc aggccgtacc 180

ggcgtctctg tctagccgga ttggtttgag gagatgtggt agatctcctc cgccggagag 240

ttcgtcgtcc gttggagaaa ccagcgaaaa cgangaagat gaagacgacg ccgtttcgtc 300

atcacaagga agatgggtca attcgtttaa gttcanctttt gggaaagaat ccccttccga 360

ttaagaaaan ggattatcaa accaattaca ttagggaaat ccgaaatccg tttgggaant 420

ta 422

<210> 4952
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-015-Q1-E1-H12

<400> 4952

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agattcttcg gtgaacggtc acatttcgtg ctacacgacg ccggagggat tcatgaggaa 120

gtgttcgagg ttttaaagcc atggattgag ctagggagag tgacgttaca tgatattaga 180

gatcaagaac gattcgatgg atattatcat aatcagttca tgatagtgaa tgattgtttg 240

cataggtata gattcatgac gaagtggatg ttcttctttg atgttgatga gtttttacat 300

gttccagtga aagagacgat ttcgtctgtg atggaatctt tggaggaata ttcncagttt 360

actattgaac agatgcctaa gagtatcnga tttgttaatc ccgtgatggn 410

<210> 4953
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-016-Q1-E1-A11

<400> 4953

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tctctcagcc attttctctt ctcgcatctg tgttttcgtg cttggagctg tacacgtttc 180

tttaatttga atagtgattt tgcgttcgtt aattagcctt ctcgtacgag tgggctattt 240

tgggaatgat ttaggtggtt ttaagttact gggtagtagt cactgctgag cgatttctgt 300

ttctcctgtt gaatgattga ttcagaaatt tgaaattcac atcgaaacca aatcttaaat 360

catattggta gctttttttt tgttttgtga ttagatactg ttttttttata gtattaa 417

<210> 4954
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-A2

<400> 4954

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gccgaaccca ganaatggtt tcactcattt gacttcactt gctcaatcag agaaggctgt 180

tcaggagctt cttcttcaac agactcctat gcaggctact gacgaccatc tcgttgagtt 240

ctctgaggct ttgagaactg ttgcaaaggc actaagggga gctgctgaag gaaaggcgtt 300

ggctcaagct gaggctgctg aatggaagcg tagatacgag ttatngaggt ctaataacgt 360

ggagttgcag cataaagaac tgtcaaatgg agtgtgtgcc gatgaatcta atgggtcaaa 420

ggatggagca cttan 435

<210> 4955
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-A5

<400> 4955

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tggcaataga tgattttgac acagccacca ttaaaacgat tttagacaag gcttcagagg 180

ttaaggcctt gctgaaatca ggggagagaa attatctacc ttttaaaggg aagtctatgt 240

ctatgatctt tgcaaaacct tccatgagga ctcgggtttc gtttgagact ggtttttttct 300

tgctcggtgg ccatgcgtta tatctaggtc ccaatgacat tcagatgggt aagcgggagg 360

gaaactcgtg atgttgctcg tgttcnttca cgctataatg acatcaataa gggtccgtgt 420

att 423

<210> 4956
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-A6

<400> 4956

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gaagctcttc gtcacgcatc tacaatggca tcgatgatgc aaccgcagat catactgctg 120

aaggaaggga cggacacatc tcagggcaaa gcgcaactag taagcaacat caacgcttgc 180

actgctgttg gagatgtagt tcgaaccacg ctcgggccac gagggatgga caaactcatt 240

cacgacgata aaggatccgt caccatttct aacgatggtg ctaccatcat gaagctcctc 300

gacattgttc atcctgctgc taagatcctc gtcgatatcg ccaaatccca agactccgag 360

gtgggtgatg ggacaactac agtggttctc ttgcagcaga gtttttgaan gaagcgaagc 420

catttattga aggatggtgt tcacgctcag aatctaatta gga 463

<210> 4957
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-A7

<400> 4957

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nnnnnnnnnn nnnnnnnnnn ctcctctcgt ccagtattag ggttttaaag gcaagaacta 180

ctagaacaag agaaggtaca aaaaaaaaat gtcgggcctc catcgatcat caagttcatc 240

gaagaacatc ggaaattgcc ttccctccaa agaactcctt gatgatcttg cagtcgattt 300

gttttgaatg tccctgaaga agatnaacag tcattncaag aagaattttg gtttctgggt 360

ggaagtaatg cttaantggt aactaangaa ngataatgct ggnnaagaat gatncaanag 420

cttaaagtcc ctgtcctttg aaaanaa 447

<210> 4958
<211> 375
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-A8

<400> 4958

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tttgttttgc ctgagactag aggtttgtca tggatatana tcttcgacta cattcaggtg 180

acctttgcaa aggagatgat gaggatanag gacttgataa tgtgttacac aatgaagaac 240

atatggatat tggcanaatt gangatgttt ctgttgaggt taatactgat ganagtgtag 300

gcatgggtgt tccaactggg gggatttggt tgagtacact gaagggtatg aatcntgaac 360

ctcntaatgg tatgg 375

<210> 4959
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-B1

<400> 4959

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tcgttgaagc gtgaatctgg aagtaaggtt catcatggta atatccaagc ttccaaggct 180

gttgctgata tcattcgtac aacattgggt cctcgttcta tgttgannat gcttcttgat 240

gcnggtggag ggattgttgt tacantgatg ggaatgctat tcttcgtgag gctatatgtc 300

gctcatcctg canntaaagt caatgattga gtntgagccg ttngcaagaa nntagaantt 360

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tgca 424

<210> 4960
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-B2

<400> 4960

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acccaggaaa caaccattct tccaggcagc agttttcgac atggaagaat ggtattggag 180

attctaatat caatgtccag actcagcata gccttgaaag tactcagatg aaggagcaag 240

aaggatcgac tttagaaaat caacatcaac atgatttgaa acgcgcaaat gaacctcatt 300

tacaacacaa ccagcctcaa gacttcatcg anctggtcaa ctctggggag atccctcgca 360

agtccccaat caactggggt taccgattag tgaaaagaat cctactgggt 410

<210> 4961
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-015-Q1-E1-F10

<400> 4961

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ccaccaaacn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnaa tgaaaggtcc gtaaggggaa gaagacagat gattgcgaaa gagcaagacg 180

aatacaaatt acgccaacaa ggtcttgttt ttcaaatggc ttctcttttc ctctctttcg 240

attactcctt actcttcttt tggttgctct tccgcgtttt cttatacgag aatcacgaac 300

gaaaactcca gattttctag cacacctctt ctctctgcat cgccatcttg ttttttcccc 360

caaattttcg attttttttt ttgtataact tttgagattc tgatagattc ggtacggagt 420

catgtatatg gagaattcnt ctgcttccga tgaatccatt gcctacgtt 469

<210> 4962
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-H10

<400> 4962

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gaaaaaaaaa aaatggcgtt ggctcttcgt anactctcct cttccgttaa gaaaccgatc 120

tcgcttctct cctctaaggg cggttcactc cgtttcatgt cgtctttatc aaccgcagct 180

atggcggaat cggngaaatc tcgttctagt tggattaagc aattgnatgc atctctagat 240

gaaatcgatc ctgaagttgc ggatattatc gaattanaga aggcnataca atggaangga 300

tttgaactta taccgtcaga gaanttcact tctctatctg tgatgcaagc cgttggttct 360

gttatnacta ataagtataa tgaaaggata cccggagcta gatataatgg ngggaatnga 420

gtncattgac atggctgana cattatgtca a 451

<210> 4963
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-H2

<400> 4963

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gtaaacaact ctttggttga gctgagtaat tacaaccaag aaaagagaag agtttgnccc 120

tgaatatgac aatgatgctg agcaactctt ggcggagatg gagttcaaag agaacgatac 180

tcctgaagaa catgaactga agctgcgtgt gttgcgtatc tattcaaaaa ggcttgatga 240

gaggaaacgt agaaaagaat tcataataga aagaaacctg ttgtacccaa atccctttga 300

gaangacctg tctcaggagg agaaagtaca atgccgacgt ttggacgttt ttatgcgttt 360

cattcanaag angagcacga cgagctactc cgtaatgttg taaaccaata ccgcatggtg 420

aaacggctca aagatntcaa ngaaactcaa ttgcaaggtg tccttcaacg ggtgaaacaa 480

ataa 484

<210> 4964
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-H3

<400> 4964

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cagttcaccg gcatttctct cttctttctt tttctccgac tagatttcct tgtctctttg 120

gtttcttggc gatgggagac gagaagccgg tgattgttat ggccaatcga gaaagagatc 180

gagagcttct gattcccgtc gctgattccg gcgacaaaga cgacggnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngcatcaatc cagccacgag actttaagct 300

tgttcattag gggctgggcg tcaaagaagt tcatgacagg ctgtgttatc ctacttccta 360

ttgcaattac ttttctatat aacatgggtg ggttaatcaa ctttgtccat nggattccnt 420

cctcctccaa ataataatgg cacaaacttt gggaatcaaa cn 462

<210> 4965
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-H4

<400> 4965

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gacatgctct ctttttttctc taaccagatc gaccggcann aaagatgtgt ctaatganga 120

aaaaacccta accaatctcg annaatntgn cggttcacaa ttccctggcg atgactaccg 180

tccgtccgat cggaaaaact ggatggctgg tcttacgttg gngaaactaa ctctaaacaa 240

gatcgtgtgg ccaggaacgc atgattcagc caccaacgat atcggaatac ctctgatttc 300

tcgtccttta actgaatgcc aatcgctctc tatctacnaa caactcgtcc tcgggacacg 360

tgtcctcgaa atccgtgttc aanaagnttg ccaaatctgg caaggggaat ncggacgtca 420

aaagaaattn aagttggcaa ntggagaagt tntcaaattc ctggccggag aatcaatnc 479

<210> 4966
<211> 497
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-H7

<400> 4966

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ccactgtcat attctcttca ggcgacttct cattgacctc tcctaacgac tctctctgtt 120

ctttggccat ggtgttggtt tataatcaag ctctcttgct cgcattcttc gcattgcttg 180

gattccagta ctttccttta ctcaccgaag caggttgtcc attggacttt acttcatcta 240

acttcactct agtggcttcc gtatgctcga acaacaccga gagagctaaa tgctgccgct 300

acatgaatgc tttcgttgca atatctgtcg cccgctatgc aaactacaca gctgatcttg 360

gagttacatc agatttgact gaaatctgta tcactactat ctctagaacc atggagcttt 420

atggaatccc aagaaatgct accatcttct gtggattagg gaccaagatt cttgttaact 480

atgattgtga gggtctg 497

<210> 4967
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-H8

<400> 4967

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gacaaaagtc tctatacctt cttgtaacgt ggtggttaat taatcatggc cgatcaaatc 120

tccggcgaga agccggccgg agttaataga ttcgctcttc aatgtgctat cgtcgcctcc 180

atcgtctcca tcatctttgg ttacgatact ggtgttatga gtggagcgat ggtgtttata 240

gaagaagatt tgaagacaaa cgacgttcaa atagaagttc tcactgggaa ttctcaacct 300

tttgtgccct tgtcggattn attgctcgcc gggaagaacg tccggacaat aaaccgggac 360

cgggcggtta caacaaatcc gtccttnggc ctcaataaca attcaaggtt tagggcccna 420

anaattgaan ggggttgggg gtccggaaat ttacccgggt tcccccaaac ccg 473

<210> 4968
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-H9

<400> 4968

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cttctgttgg tggtggngat ctaagttttc aaaagaatcg attttgccaa gtgggttctt 120

cttgataacc tttcttcttc tttgaaatgg gttcttctgt ggagcagaac attcttgtta 180

ctggtggtgc tggctttatc gggacgcata ctgttgttca acttctcaaa gatggtttta 240

aggtttcgat catcgataat tttgataact ctgttatcga agctgttgat agagttaggg 300

agcttgttgg tcctgatctc tccaagaagc tcgacttcaa tctgggtgat ctaagaaaca 360

aaggggacat tgagaaacta atcctcaagc aaanatttga tccgtgaatc aatttgcggg 420

tcctaaaact gtggttaaga attgttgaaa cctccgcgca cttgacataa c 471

<210> 4969
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-015-Q1-E1-A10

<400> 4969

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aatattaaca gttatagctt cgtgacttca agaaatatcc atttcaagat tatttaacct 120

ttttttgtct agcaagtcat cgtattctac tttgttgttg caaatgggaa gttcatgttt 180

acctccaggg ttccggtttc atcctacgga tgaagaactc atcgaatatt acttgaaaag 240

aaaagtcgaa ggtctcgaga ttgagcttga agtcattccc gtcatcgatc tttatagttt 300

cgatccttgg gagttaccaa gacaagtcgt ttctcccaaa ccgggacatg gaatggtact 360

tcttctgctc aangggacaa aaaatatcct aatgggtttc gtacaaatcg aaggaacaaa 420

aggn 424

<210> 4970
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-015-Q1-E1-B11

<400> 4970

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ctacaaatct ggaatcagcc ggagcgaatc tcgaagctta tgatctcgac ttgctgaaga 120

ggctgggaat ggctggtaaa gaggagactg atgtatctgc acaagggtct ttaaccaggg 180

aggccactga gatatggagg agtgagttgg aatctcgccg gtttcaggta gatagtttag 240

aagctgaact tgtggatgtc aaggcttacc ttgagtttgg ctcagaagaa gatgccagaa 300

aggagttagg agttctttcg ggtaaggtca gatcgactgc aactatgttg cgttatttga 360

gatnaaaaag ctanaatcct tgggcaatcc tgatgatcta acaaatgtgt catgcngtgt 420

ggaaa 425

<210> 4971
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-015-Q1-E1-B12

<400> 4971

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tccatcgctc cttctctttc atgcccatct ccttcttctt catccaaaac cctttggtct 120

tccaaagcca gaaccttggc tctacccaat atcggtttcc tctcgtcttc ttccaagtct 180

ctgaggtcgc ttactgccac cgtcgctgga aatggcgcca ctggatcctc ccttgccgct 240

cgcatggttt cttcgtctgc ggtcaaagcc cctgtttctc tcgattttga gacatctgtc 300

ttcaaaaang agaaagtttc tcttgctggt tacgaaagag tacattgtga gaaganggaa 360

aaaacttgtt caagcatctc caagatgctt tcaaggggat taancagatt g 411

<210> 4972
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-015-Q1-E1-B9

<400> 4972

tcgaaaaatc agatttttcc agatcaatca gagagttaga gatggagtat aataacaaca 60

atcagcaatc tttttggcag ttcagcgacc agctgagagt tcagacaccg aatctagcga 120

atctgtctct caacgactcg atctggagca caaactctgt cttcaaagag cgtcgaaact 180

tagacatagc cgccaccacc gacaagaaca acaaccagat cgactattat cagaagaaga 240

caacttccga caacatcaat tccaactgga actggaagtc ttctggttca aacaacgaca 300

tgggtttagg attcggacct gtgggttcaa aatccaccgt cgatttaaac ccaatcgaca 360

aattcaactc ancgttcaac gacacgtggg aaattcaact cagtcaacgt taacgttaac 420

<210> 4973
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-015-Q1-E1-D10

<400> 4973

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gattcgatgg gtaagaacga ttttctaacc ccaaaggcga ttgcgaatcg aattaaagcc 120

aaaggacttc aaaagcttcg atggtattgt cagatgtgtc agaaacaatg ccgagacgag 180

aatggattca agtgtcattg tatgagcgaa tctcaccaga ggcagatgca agtttttggg 240

cagaatccga ctcgtgttgt cgatggttac tctgaagaat tcgagcagac gtttctcgat 300

ctgatgaggc ggagccaccg tttctctcgt atcgctgcca ctgttgtcta caatgagtat 360

attaacgata gacatcatgt tcacatgaat tcgacggagt tggcgacttg acggatt 417

<210> 4974
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-015-Q1-E1-D11

<400> 4974

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ttggcgcggc tgctttcagt cccaatcctg acgagcgcag agctgctgag cagagcctta 180

atcagttgca gcacactcca cagcatttga taaggatatt gcaaataatt gttgatggtg 240

gctctgatct ttctgtacgc caatctgcta gtatccattt caagaatttc attgctaagc 300

actgggaacc tcattctggt gaccaagaac ataatcttgc caagtgataa gaatgttgtc 360

aggaancaag attcctgtaa tttgtcctca aagtgccccg antttgaga gttaanatgg 420

ggaaga 426

<210> 4975
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-015-Q1-E1-D9

<400> 4975

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agccccttta gaacagtgga gaaagatcca cacagataaa aaaacgggtg agttttatat 120

caaatagacg aaaatgcccc tgtcggcgac ggcggataca agcaagacgg tgaagctgga 180

gaggtacaat agctacctcc ggaagattca cagcaccaaa gttctcaacg cttcttctaa 240

agttcttttc cgagcaacgc ttctcgtagc tcttgtcctc gtcctcatct tcgccatcaa 300

ctaccctcca ctctccgata gccgcgccgc cgcagcacac canctccaac gtcgtagctt 360

cttatccaac gggactcctc tcctcctcct cntcttcctc tctatcggtg gagccgcgtg 420

ggaaaa 426

<210> 4976
<211> 507
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-H1

<400> 4976

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tccagatgaa gtagcggacg aagttctcgc cttgacagaa atgagtgtga gaaaccatac 120

cgagaggagg aaactaggtt actttacttg cggaacagga aaccctatcg acgattgttg 180

gcgatgtgac cccaattggc acaagaaccg taaacgccta gcggattgcg gtatcggatt 240

tggaagaaac gcgatcggtg gtcgtgatgg acgattctac gtagtcactg acccaagaga 300

cgacaatccg gttaacccta gaccggggac tttacgtcac gccgtgattc aagaccgacc 360

actatggatt cgttttcaaa cgtgacaagg tgattcaact aaaacaaaga gcctaacgtt 420

aacaatttca aaacgatnca aggacctngc gcaaacttca acaatgctaa acggtgggtg 480

catcaccaat caattttgtg acnaatg 507

<210> 4977
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-H12

<400> 4977

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ccggtggtct cttctattat ctgtttggct acgcctttgc ctttggatct ccgtccaatg 120

gtttcatcgg taaacactac tttggtctca aagacatccc cacggcctct gctgactact 180

ccaactttct ctaccaatgg gcctttgcaa tcgctgcggc tggaatcaca agtggctcga 240

tcgctgaacg gacacagttc gtggcttacc taatctattc ctctttctta accgggtttg 300

tttacccggt cgtctctcac tggttctggt cagttgatgg atgggccagc ccgttccgta 360

ccgatggaga tttgcttttc aacaccggag cgatagattt cgctgggtcc ggtgttggtc 420

aaaanggccg aggtat 436

<210> 4978
<211> 515
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-H3

<400> 4978

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tacaacttcg agcagagatg gagcaagcag ggtggtaaag acattctggt taagttgaga 180

gatcttagtg atattattat cacccccttct cctgttatgt tccaagagga ccacgatgtg 240

tggaatgtcc aattgtttag gtccattgat ggaggagctg ctgctgggtt tcccgagtcg 300

cctgaagctg ctgcggaagc cgggcttgta agtgggaaag ataacatcat tgataggagt 360

atccaagatg cttacattca tgcaatcaga cttctaagga ttcatcctac nttnaaaaca 420

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gacatcnatg cccctgcaac nttaatccca aaaag 515

<210> 4979
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-H4

<400> 4979

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caagagagcc aaagccaagt actctctgct cttaaaaccc taacgtatct gcgataaacc 120

ctcgcgcctt tgctaaaata gctgccttta tataacttag ccgccacttt aattctcgaa 180

agtcatgttc tttcactttt cttcgctggt tcttcttcgc gctctctctt cttgccatgg 240

ttggatttcc cgctaatcaa gcaaaaaccg ttgaagaaga gctacctttg caagtcgtag 300

ccgatcaaga ccccaaggta aaaactttca aggactcttt tgatttccct tccatcgatt 360

cctttccgga tttcgattct atcacttggc ctgagataaa ccgggaacgt tgaggattta 420

anaatagaag ataccggcct tggattcctt tgngttacaa catgggggaa acctccagaa 480

anagttggta accggtaacc angtt 505

<210> 4980
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-H5

<400> 4980

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agcaattttt caatttcgtt tgcagaaaaa tggcaaagga taatgaagca atcgccatta 120

acgatgcggt tcacaagctt cagctctata tgctcgaaaa taccactgat cagaaccagc 180

tcttcgcggc gaggaagtta atgtctcgat cagattacga agatgtcgtc actgaacgag 240

caatcgctaa gctctgtggt tatactcttt gccagagatt tctcccttcc gatgtttcta 300

gaagagggaa gtatcggatt tcgttgaagg acataaggtt tacnatttac aggagacgag 360

caaantttg ctcgcctggt ggttnaattg atancaaaac ntttccggga attgcaaaag 420

gccctanatt ggatt 435

<210> 4981
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-H7

<400> 4981

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aaccctagta gttattatag catccatcgc tttcttcaat cgccgtccat cagagtttca 180

agggatttgc tttaaagatc aatcctttcc taagaaaata gcgacaattc atcagctttt 240

cctttcccat ccttcattac cttaacttac tcgagattca tcttccagct gaaattgtga 300

aacttcgttt ctgggttttt atcagaaaac actctgtgac tattgtgtgg tgatcgagga 360

aagaaaaaag atggttggtg gtggaacagg agagatgang gatcnatgcc natcaanaaa 420

acaacttgtt ggcngctttg gaaaact 447

<210> 4982
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-A1

<400> 4982

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taatgcttcc aagttagctt ttgaaaaata tgtcttctcg aaaacctcca agaccaatgc 120

tcgcacagaa gctgagatca cactgttgga gagtaatatt gttgtctata agtttgccca 180

ggacctgcat ttctttgtta ctggaggtga aaatgaaaac gagctcgtct tatcatctgt 240

tcttcaaggc ttttttgatg ctgttgcgtt acttctgagg aacaatgttg aaaagatgga 300

agcccttgaa aacttggatc tcatcttttt gtgccttgat gagatggttg atnaagggat 360

ggtacttgaa acagacgcca atgttattgc ngggaaagtn acaatgcaaa acgcaaaaac 420

aagtgggtca ntcnccgaac aaacattaac tcaag 455

<210> 4983
<211> 534
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-A3

<400> 4983

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cgcgtccgcc cacgcgtccg caactttcag ccaacaaaat tagggtttca agctgagatt 120

ttctacttct gttacacaaa aatacccaat gagtaaagct tcggtgatcc tatacattac 180

ggtaggaatc ctggtgctct tcctcgtctc ttattcaccg aagaagaagg gtgaccacga 240

tcaccaccat ggtggtcaca atcaacatca ccgcttaaaa ctccggtctt ctttcaattt 300

caaacccact cgtcacgatc cagttccgtt tgatcctctt gtcgccgaca tggagcgccg 360

ccgcnaggga taagggagtg ggaagcgaca agttcatttg aagcattcct caaccccggg 420

agcttgtcct cctcaattcc tcaagaaaag aaaacaaccc gggtgggtgg gnccattgaa 480

acatggcaac ctgggtcaac gaaatccgca ancctgaag ttgggaaana aatt 534

<210> 4984
<211> 486
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-A4

<400> 4984

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acagtatctt gatgtggtgg agctgcatct tgtgaaggag atctctgtga ggtctgattc 180

gttttttgag gctcaaggac agttacagga tttgaatgtg aagattgttg aagggttgta 240

gtaggattcg tgagttgaaa agagactatt cggctcctgg ataaggaatt tggtagattc 300

aactcgacaa gattcaaaga actgaactca actaaggatt aatatgcctg ggaacctgca 360

aacgttaaat taaagaactt aaattttggt angtttaaac caaagctcct ctcctggcaa 420

ctcaaaaatt gccttggttt gcccttccgc aaaanttgtt cctgggaacc ttttgggaaa 480

aaaaac 486

<210> 4985
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-A8

<400> 4985

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ccaaaccgcc ccccgcccca atcaagtacc agttgcttcg cagcgcgggt agcctactta 120

ggttaggagg gcattgcccc tcagttctta ctaacctccg gtgtgtaatc aacatgttgc 180

tagcttcaac tcggttgaat aagaatcatt gattctctct cctgtccatt tcttattcat 240

tcanggcgct cggccggtgc tcctttctca aancaaaacg actctgaacg ttanggaaga 300

taagaccacc tgagcgaacc gatcaaaggg acttgactta tccgaaccga acgatagcag 360

cttaaactta aagctaagcc tctcacgagc agcgtcgctg cncnggggag gatcatctca 420

aagtatgggg caaaggatna agcgctttta ctttgtctcc cgggatcaac acaggttggg 480

ttgaaaa 487

<210> 4986
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-A9

<400> 4986

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cattgacgcc ctaacaanaa gacgcccggc gaagtgtatt cgtcactttc tctaagtttc 120

ctgtnaaccc ancccactca aacganatnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnngtg gcggaccggt tttgtggttt tttatttgaa cattcccgat cttgccctga 300

gttccacgat cagtttcttt aaaccctang ttttacacaa ncattcngtt tctccagatt 360

atcgcagact ccttcgttct attccttgga agtttgtaaa aggnaattcc ggtaaattag 420

gggttgnccg gtgtccc 437

<210> 4987
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-B11

<400> 4987

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agaaacacaa gatcgttaaa aagcttttag ctccagatct gtggaaccgc catagctatg 120

gagttttata gaagttctag aagattacaa attcttggat ctgtgattct tctgctctct 180

attcatgtcg ctcactcttt ttaccttcct ggtgttgctc ctcaggattt cgaaaaggga 240

gatgaattga aagtgaaagt aaacaagttg acatctataa agactcagct tccatattcg 300

tattactctc ttccttttg tcgtcctaag aagattgtgg acagtactga gaatcttggt 360

gaagttcttc gtggtgaccg aatcgaaaat gctccttaat cgtttaaaat gcgtgaggng 420

caaatgttgt aatgttctcn gtccgtgtta agcntgatgc aaaagtctgc caaagc 476

<210> 4988
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-B12

<400> 4988

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cgtccggtaa cggatctgta cttaatggtc acttgagact tccttacgct accaaatggg 120

acgcttctta nttctatctt aagctaagat ggaacatacc ctgtggncca aacagtgtga 180

ttacattccc gggagctgtt tggttaaagc catggtactg gtggtcatgg cctgttcttc 240

cactaggttt ctcatggcac gagcagcgtc gcgccactat agggtactca gccgaaatgc 300

ctttggttat aatccaagca atgttttacc ttggaatcat agtggttaca cgactanctc 360

gtcctaacat aaccaagcta tgttatcncc gctctgaccg caacttaaca acgattcaag 420

ctggttttaa gttgatcgcg cttctctctg taattgcaac ctacatcctc ncattcctca 480

acatcc 486

<210> 4989
<211> 501
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-B2

<400> 4989

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ctctttctca gagtctcaag catcattttc ccgagaaaac tatgaattca aacattttcc 120

caccatcgaa acaacaaaac gagcttaata atatacanna atccttctca aatctccaat 180

ctcaatgctc caatttactc ctcaacgttt cacaaaccct taatcctctc ttcaacgcca 240

acacgaacaa caacaaacct aatatattct ctgctctcaa ttcgtttcgt gatcaagcta 300

agcaagcttt agattctaga atctctcgat tcaattctgg taaggcacct gtctgggcga 360

gaatttctga cgacggtggt ggtgcgaggg ctcaggtgac gggttccgat tcgcggaagc 420

cggaaaagnt taacctggct gatggctaat ggaggagaag attgggcggg aagtttccng 480

tttaagcngt tggagttaat t 501

<210> 4990
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-H11

<400> 4990

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tgatgcggct cccaaacaat cgaaattgga cttcacggat tccatcgatg aaaatgggaa 120

caatgatcat gtagatattg tggctgctga ccanggagaa agtatgatgg acaaggaaga 180

ggttttcagc agtgatagtg aaagtgaaga tgatgacgaa ccaggaagtg atgagaagcc 240

tgctcaggct aagaaaaagg gatggttttc ttctgttttc cagagtatta ctgggaaagc 300

gaatcttgaa aggacagacc ttggaccggc gttgaaagct ctgaaggaac ggctcatgac 360

caagaatgtg gcanaagana ttgctganaa gctttgcgaa tccantggna actantcctt 420

gaaaggaaan aaatttgtcc atcctttcac caggatntct tcaaaccgtt tcaaggaan 479

<210> 4991
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-F7

<400> 4991

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cccaaagcca agaaccctct tgacttgcta ccaccaagcc ctatggttct agatgattgg 120

aagaggcttt actcaaacac caaatctaac ttccgcgagg ttgctattaa aggattctgg 180

gacatgtatg acccagaggg atactcacta tggttctgtg actacaagta caacgatgag 240

aacatggtgt catttgtcac gctcaacaag gttggtgggt tccttcagcg tatggacttg 300

gcacgtaaat actcctttgg aaagatgctg atttgtgggt cagagggtcc gttcaaggtg 360

aaagggttta tggctgttcc gttggaccan agatccaaag gttcataatg ggacgaaggt 420

gtacgacatg gagctgtatg aattggacta aaggntgata t 461

<210> 4992
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-F8

<400> 4992

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gagagatttt ctctctatca tcttatcttc ttccgtgtaa tgctctgagc caaaacccaa 120

taactaaatc aacaacaata tagaagagaa gagaaagatc ttatctttct tctcattctt 180

gagtttagtc ccccacaatg gcgattcgga aggaggaaga aagtagagaa gaacagagca 240

attcgtttct tcttgatgct ctctactgcn aagaagagaa atgggacgat gaaggagaag 300

aagttganga aaactcttcc ttgtcttctt cntcttctcc aattcgttgt ttttgcaaca 360

angatttgtt ctgggaaaga tgaagatttg ggttnnaccc ttctccaaaa gaagaagaac 420

aaaggactca agctgttctc gatgaaggtt tan 453

<210> 4993
<211> 514
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-G1

<400> 4993

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gaaactccct aatccgacgt cgttcgtttt aattcagtga cacaatctcc cacatcttca 120

aacccttga aaccagcgnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnt cttccatgac 240

agaagcatca cacttggaac gcttatggga tttagtttca ctgcaactat gccgatgcca 300

tttagagcct cttcacgccg ccacgtgtca ccttccgtcg caatctcacg agcttctagc 360

tccaatgcaa agacgcaacc accaagaaga aaagcgtcct cccttcaaaa ttccggtgaa 420

cctgaanccg gatccgccgg ccgttaaatn ggtgggcggg ttttggccga agaatgacna 480

atgaacgaan gcccgcccgg aaattggaat ccaa 514

<210> 4994
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-G10

<400> 4994

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ggcgtcagca aaacactgcc gtctgttccc ttcagtccct tagcgccccg ggacgggagt 180

gggggacggc tctacgcgca ggcaacagca gcaccggctc cacgaagtct gaatcgaatc 240

tttctgttgg ctttcccaaa ttcattcgta aatcaaaatc aaagggctag aagcgagcgc 300

ttctagctgc ttcgcctgct tcttcttatt atggcggcca tgttggcgtg gcgaaaatga 360

acgaaaagcg agatgaacgt gctattttca aatcggattg atagattgat cgttctgata 420

gatctaaaga gtanaaat 438

<210> 4995
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-G11

<400> 4995

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cgaccctctt gctggaaaag tcatgattga tggcaaagac atccgccggc taaacctgaa 180

atctctaagg ctcgaaatcg gtcttgttca acaagaacca gctctcttcg cagcaacgat 240

cttcgacaac atcgcctatg gtaaagatgg tgcaactgaa tccgaggtaa ttgatgcagc 300

tcgagccgca aatgctcacg gtttcatcag tggtttacct gaaggttaca aaactccagt 360

aggcgaaaga ngagtgcagt tatcangtgg acagaaacag aggatcgcga tagcaagagc 420

tgtgctcaag aancctacaa t 441

<210> 4996
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-G2

<400> 4996

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tttacttttt ttataatcgc aaaaacaaat ttcaatagtt cttgtaagcg caacgtgtaa 120

gtagagacat acacacattt gtagtgtttt gttttgtata ataacatcat cgcatataga 180

gaaaagaagt taagacgacc gtatatatcg ttttgaaaac cgggtcggat aaaaaaaaac 240

cggtttcttt aaccgagtcg gcgcgcatgg agctatgcaa tcaaaacaat cacatcaccg 300

ccgtctcggg cgatccgttg aactggaacg cgacggccga agctttgaaa gggaaccacc 360

tggatgaggt gaaacgaatg gtgaaagagt atangaaaag aagcggtgaa gttangaggt 420

gagactttga cgattggtca agttaccgcc gttgctaaaa gaagaagagg atctacngtg 480

gg 482

<210> 4997
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-G3

<400> 4997

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ttctcaatta cgatctatca tcaccagaat ccgttttctc tcttttaact ccgatacaaa 120

acttccgata atcccaaata aacgttacga atttcagact ctttttttcca gtttctgttt 180

gaattcgatt tcgaaggatt agattctccg ttctactgag acgttagaag aattgtggct 240

gttgtcgact gcaaggagag cgcttacttt aattgctgat ttcatgagac gagatggctt 300

tctttaggaa ctactcaaac gatactgtgt cacataatgt tcttgatgaa aatgaggagc 360

ggcaaaatgc tgctactttc agagttcacc ttgaatgaag atgttggatg gtacttanan 420

tgaagaagct ttacatgaac aagggcgttc agtaacaaag tgaccanaac 470

<210> 4998
<211> 510
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-G4

<400> 4998

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ctttcctcag ctcacggtga gtctctggaa cggattgtac taatctcatt attttcccgg 120

tttcagaacg atttctggaa cattcattcc acactctgag aagaaacatg agtcacccga 180

gaaatgcaga tgatatattt tctgagttct ttggggtctc tagaccttct ggtccttctg 240

gtcccagaaa tgcggatgat atatattctg agttctttgg ggtctctagc ccttctggtc 300

caagaaataa ggatgatata ttttctgagt tctttgaggt ctctaaccct tctgggtccg 360

agagataagg atgatatatc tgctgaatac tttggggtcc ctaacccttc tgggcaatgg 420

caacaattgg aggcaganaa aggaagaagt ggtggtggtg gcacaatgca tcacggtggg 480

agctaaggaa ggcanctccc tgttgaaaaa 510

<210> 4999
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-G6

<400> 4999

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gaaagaccag tgatggctga taatggcgtc caacaggttt ctcacgacga tggaaggaac 120

attgtttctt cgtcttatag ttcttccgtg gttccttctc ctgatcccgc tccttattat 180

aacgttcttc aaacccctac caatctctat cactacgatt gggatatcgc aaattctggc 240

tatgcacaag gcatcaatac ttgggatgga tatccacgat atgctactac tacccctgaa 300

gccatgcatg tgccaccggt tgtctacaat gacaattcat ctcttatgta ccaatatcct 360

ggttatggat taacccttat ccttctgtaa tgttggaggg acaaattcaa ntctcc 416

<210> 5000
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-G8

<400> 5000

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agttgttagt gcccgtgagt ctctctctag tgacgaagac attactgaag atattgggta 120

tatgagtgag gtttcatgta cagttgagag agacgacggt agtagttcaa gacgaatcac 180

caatgctact atctctacac ttaattccga gtcatcagat tcagattctt cagatgagag 240

tgaagtggta caggtctttc aatcttctgc tactccggat gtgaatagta cttatccagc 300

cagttcatct attccccgga cagaagagga ttttgtgacg tggcaagcgt attaacccgt 360

ctagacgccc gtgcgttgct gactcaagaa gtggacctcc taattcctcc atcccaaggc 420

aattaaatcc ggagggatag aacatgttcn tgccgctga 459

<210> 5001
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-013-Q1-E1-G9

<400> 5001

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tcagatcgtc tctccgaaat tttccggtta atcgtcagtt aaggggaaaa ttaggctatg 120

gcgatgttag gtgcacagca agttccagca gcagcttgta ctccagatat ggttgggaat 180

gcttttgtgc cccagtatta tcacatattg catcaatcac ctgagcatgt tcacagattt 240

taccaagaga ttagcaagtt aggtcgtcct gaagagaatg gtttaatgag catcacttct 300

accttgcaag ctattgacaa gaagataatg gcgcttggtt acggtgtaat cagtgcagag 360

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gtatttgacg ggaaaagaca 440

<210> 5002
<211> 527
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-H1

<400> 5002

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aactcccaaa atccatatcc tctttaaaac atttttgtcc aaataaaatg ccttcttgtt 120

cggtaactga aatttcaaaa tgtatcgtct atccggagaa gaagtccacc gtctccgatc 180

tccgtctctc cgtctccgac ctccctatgc tctcatgtca ttacattcaa aaaggcgtcc 240

tcctcaccag ccctcctcct tccttctcct tcgacgacct tgtctcctct ctccgccgtt 300

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cggcnaaaac acggtnaaaa ctcctcctga angttcccct taacaangtt gaaagaannt 480

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<210> 5003
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-H10

<400> 5003

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gttttcatct tctcagatct cacagaacaa tagtcaaaga ctgatgcaga agaagcgtta 180

gtacaaggtt tttgttggaa agcaattgaa tctgaattca tctttcattt tcacgctttg 240

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ggggcaaatc gaaaagcctc taaagctgag gcgaatgatt cgtcnaagta tgggtttgat 420

caacaaggta ngtcangtcc tggntcaata tgattgtaat cangcat 467

<210> 5004
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-F5

<400> 5004

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gccggaccta ccgtcgttgc cgccatcaac ggatctgtaa aagaaatcag attcagaggc 120

gtaaggaaga gaccttgggg acgattcgca gctgagatcc gtgatccatg gaaaaaagct 180

cgtgtttggt taggtacttt cgattccgcc gaagaagctg ctcgcgctta cgactccgcc 240

gctcgtaacc tccgtggtcc taaagccaaa actaatttcc ccatcgattc ttcttctcct 300

cctcctccta atctccgatt taatcagatt cgtaatcaaa atcaaaacca aagtcgatcc 360

gtttatggac caacgggtta ttcaccgacc atcaacaaca gtttcccgan tgttaaccgg 420

gctactaagt agcaagcatg ancaacaccg ttgatc 456

<210> 5005
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-D8

<400> 5005

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tctcttgagt gaattagagg tatgttttga gtgttctcat atggagtgtg ttggagatag 120

gagcttcgat ccaagcaaag gggaaaagtg ttggcttcat gaggcttcga tgcagcctta 180

aacgctaaaa tccaggccaa gcaagatgga gatagagaga gatgatgggc aaatcaggtt 240

cgcagcagct gctgatggat gagaagatat atgttgcagt ggggagtgac ttggggaaca 300

agtccactct tgtttgggcg atacagaaca ctggaggcaa ggagttctgt atcgtccaac 360

gttcaccaac cactctacag aaaagaaaan ggaaaagaca caaaagattc tggacaaata 420

cctacaaaaa tgcaagcaaa tgcaagtctg tgct 454

<210> 5006
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-E12

<400> 5006

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agtacataga gtacaacaca aaaccgagaa tcgtccctga gaaaatcaat gttcacttag 180

ttcctcactc acacgacgat gtaggttggc ttaagaccgt tgatcagtac tacgtaggct 240

ccaataactc cattagggga gcttgtgttc agaatgtatt ggattctgta atcgcttcat 300

tgcttgatga tgaaaataga aagtttattt atgttgaaat ggctttcttt caaagatggt 360

ggaggcaaca aagcaatgct aagaaagtta aagtcaagaa gcttgttgac tcctggtcaa 420

cttgagttca taaatggtgg aat 443

<210> 5007
<211> 511
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-E2

<400> 5007

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cntccgcgca tctacaatgg catcgatgat gcaaccgcag atcatactgc tgaaggaagg 120

gacggacaca tctcagggca aagcgcaact agtaagcaac atcaacgctt gcactgctgt 180

tggagatgta gttcgaacca cgctcgggcc acgagggatg gacaaactca ttcacgacga 240

taaaggatcc gtcaccattt ctaacgatgg tgctaccatc atgaagctcc tcgacattgt 300

tcatcctgct gctaagatcc tcgtcgatat cgccaaatcc caagactccc gangtgggtg 360

atgggacaac tacagtggtc ntccttgcan caaaattttt tgaaaggaac naaaccattt 420

attgaaggat ggtgttcaac ctcaaaatcc aattaaggat tancgcactg caagcacttg 480

gcaattgcca aaggttaaga actccctgtt a 511

<210> 5008
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-E3

<400> 5008

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cccacttccc acagagagac acattcatgc caagcaatgc caggtctcgt ctcagtcaaa 120

actccttccg atacaccgcc gctacgtgta gccgtacnng acacgcaacc tctctcaaac 180

ccgccgcgaa ctccgatgaa gaaaaccctt cctctacacc atctcgatnc aaaccatcac 240

caaatagatn caccgggaaa aaagattccc caaccgtatc ctcctccaac gcagccgtaa 300

tcgacgtcga cgattcatct ctagataatc caaatttcgg tcctttcctt ctaaaattag 360

ctcgtgacgc tattgcttct ggtgaaagnc ctaacaaagc attagattac gcgattcgaa 420

gcaactaagt ccnttgagag atgttgcgnc cgccgttgct ccgcctaatc ccggtgggta 480

gcgatnggtg gacctgttcc tgatt 505

<210> 5009
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 5009

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tacccaacaa aagacgatga agaaattgtt ccttccttgg actctagtgc caatcaactt 120

ctctgccaga gatgtcactg ttcgttgaag agcaccagca tcgatgacaa cccaccttca 180

tatacttcta gtcataatcc taagatttgc acaagatagt ttgagctctg tttcaaataa 240

agaagctcat caaggatctg acgagaactc ctctggctcg tgtaatgtca gtcaaagctc 300

tgaagctgac attgtcataa tgaaacaaga tgttcctcta gcaataatag tggaatcggt 360

gcaatggtag aaaaggaaac cgagatccga cttcaantga gaaantcgag ttccccccga 420

gttcaaagat antctggggg atatacaagg a 451

<210> 5010
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-E6

<400> 5010

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cctaaaatnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnncac cgttaaactt caatacccat ttgtcatttc ccccaaatct ctccgatttc 180

ttaaatctaa tttggattta ctttgcctgt aaaaccattc gcattgttac gcatccgatt 240

ttgcagttcg aaactcgagt tcaacttcaa tttgaggtag atttcgagaa aaagctgaag 300

aatttcggaa caactaagat tttaacggtg gaattgggga gtcttgaagc ttatttttcc 360

tcctgggtct ctttttttctt atgtggtggt gcttgagagg gtttttgtat gatataaatg 420

ctctagatca gagaaaaggn ctaacatgaa gttatcaaat attccgcaac gctatgtaat 480

aatcctccta actttcctca acaca 505

<210> 5011
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-E7

<400> 5011

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ttggcagaaa ccgcttgaga agatcatgtt taagtatctt gatctttgtg ttgacttgaa 120

gaggggtcga ttcgctaagg atggattgat tcagtatcgt attgtttgcc agcaagtgaa 180

tgtcanttcc ttggaggaag ttatcaagca cttcctacat cttgctactg acaaagctga 240

gcaagctcgg tctcaggcgg atgcccttga ggaggctctt gatgttgatg accttgannc 300

tgataggaan cctgagggat ttacagccaa gttattgtcc anttggggaa aanggggaaa 360

aagatanggt cngaaccggt tganttgggt ccacccccaa ggggtttaaa gttnccnggt 420

gggggaanaa cnttncnngg acaactccct tgaaaatttt tggcnaaann caacctcaaa 480

nagtttggga 490

<210> 5012
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-E8

<400> 5012

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atatgttgcg tgcaagcttc atggtttaaa tgctcagtgg agtgaagaaa agaagcaaag 120

ttacatccgc catgccaaca gggaatgtga gatccataaa agtcttgtgc atcaccacat 180

tgttcggctt tgggataaat ttcatatcga catgcataca ttctgcaccg ttctggaata 240

ttgtagtggg aaagaccttg atgctgtatt aaaggcaaca tctaatcttc ctgagaaaga 300

agcaaggatt atcattgtgc anatagttca aggccttgta tatctgaaca aaaagtcaca 360

gaagataatc cactatgatc tgaagcctgg taatgttctc tttgatgagt ttgggagtag 420

caaaagtaac tgattttggt ccaagcaaga t 451

<210> 5013
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-E9

<400> 5013

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gttccaaagg agcagatcgc gactttaata gagcatgggc tttacgattc tgctgaaatg 120

ctcggctgct ttctcgtttc ttctcctact gttagtgccg aaactagtcc tcagctcaag 180

gcggagaatt tgattctact gggtgatgct ttatttcatc agagagaaca ccggagagct 240

attcatacgt acaagcaagc gttgcatcat tacacaagga ttccgaagca aagctccggt 300

atttcgagga gttcattatc tttatctacc agatcatctg tgaatgcctc aagcatttct 360

gctattaatg agaacgaggt gagattcaag attgcttcat ctcactttgc tctaatgaaa 420

caaaagctgc aattgct 437

<210> 5014
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-F10

<400> 5014

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gttttgagaa gtaaagctga tggagctagg tctagagaag aagcttttga tggacatatg 120

gctattggta gggttttata tgagcatcag ttgtttaaag aagctcttgt tagcttcaag 180

agagcttgtg aattgcaacc gactgatgtg agacctcatt tcaaagctgg gaactgtctt 240

tacgttttgg ggaaatgcaa agagtcgaaa gatgagtttt tgttggcgtt ggaagctgct 300

gagtcgggcg ggaaccaatg ggcttatttg cttcctcaga tttatgtcaa tctcggtatc 360

gcgcttgaag gcnaaggtaa tggtttgaat tgcttgtgag tattannnan aaactgcaat 420

ccaagtccta ancattttaa a 441

<210> 5015
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-013-Q1-E1-F12

<400> 5015

cgtccgccca cgcgtccgcg gacgcgtggg ctttcttctt tctctaaaat cttctaagaa 60

taaccatttt ctaaagatat cttttaacga gacaacaaac aacagaaaaa cacacaaaaa 120

cacaaaactt ctgtttccct gtttctccgg attctctccg gctctgagct ttcggcttct 180

cctctccgga gatgttactc tgcttccctc ttttgtgttc tttttgtttt ctgggtgaat 240

attgtatgaa cctttgactg ggatttttcc gaagaagaat cccagacgac gtaatttttc 300

tccaagctat ggctgttgaa gagatggaga agaagatcaa aggaagccaa gagacgggag 360

ctacataaaa acgacttatc aatcgaagac catctccaag atgcgtgctt gaaattccgg 420

taatgagttc agattc 436

<210> 5016
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-F3

<400> 5016

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cgatggagaa tacggacgtc ttcttggggc tgcatgattt cctggagcgg atgcgcaaac 120

cctccgccgg cgatttcgtc aaatccatta aaagtttcat tgtttcattc tcgaacaatg 180

caccagaccc ggaaaaagat tgtgctatgg ttcaggagtt cttttctaag atggaggctg 240

ctttcagggc tcatccactt tggtctggtt gttctgagga ggaattggat agtgctggag 300

atggcctgga gaagtatgtt atgacaaagc tatttactcg ggtgtttgct tcaaacactg 360

angangttat aactgatgag aaactatttc anaagatgtc attgggtcaa caattcaatt 420

ctcccgagaa nttgggtata caaccaactt tcaaaa 456

<210> 5017
<211> 507
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-F4

<400> 5017

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tcatctttct ctctaagaga ttttgtaggt gacaatcaaa agtttgacaa aatggtgaag 120

tttacagctg atgagcttcg aaggattatg gactacaaac acaacatccg taatatgtct 180

gttattgctc atgtcgacca cgggaaatcc actcttactg attctttggt tgctgctgct 240

ggtatcattg cccaagaggt tgctggtgat gttcgtatga ctgataccag agctgatgag 300

gctgaacgtg gtatcactat caagtccact ggtatttctc tctactacga agatgactga 360

tgaatccttg aagaatttca ctgggagcca agaagacgga aacgagtacc tcatcaatcc 420

tgattcanct gggcacgttg acttttcctc cgaagttact gctgctctcc gtatactgat 480

ggtgctcctg tggtggtcga ctgcant 507

<210> 5018
<211> 507
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-D7

<400> 5018

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ggagacttct caacctgcac gggtgttgca acattcacaa tgatgcttct cagccaatac 120

gtattcaata agtatggttg gggagtagct gcaaagatca ccccaactgt tctgctattg 180

actggtgttg cgttcttctc tctaatattg tttggcggcc cattcgcacc acttgttgcc 240

aagcttggta tgacaccgct acttgcagct gtgtatgtcc gtgcccttca naatatcctc 300

agcaagaatg ccaagtacaa cttgttcnaa ccttgcaaag aaatnggcta tatcccattg 360

gatgaaggac accaaggtta aangcaaaac tgcgaatgac gtggtctgca anccattaag 420

gaaatcaagg ggancttaa tacancagtt caagatcnta nccttgggt taccaaccaa 480

atcaaagccc tatcctagga atgntct 507

<210> 5019
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-012-Q1-E1-C3

<400> 5019

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acaagggaac attgtcaggg ctatacagtt tctgttacca ccaagggatc aaactcgaac 120

ctcttgcnct acgaatacat gtctcgggga agccttggcg agttacttca cggcgggaaa 180

tcacatagca tggattggcc aactcggttt gctatcgcac tcggtgcagc ggaaggtctc 240

gcttacttac atcatgattg taaaccaaga atcattcacc gtgacatcaa atcgaataac 300

attctcatcg atgaagaatt tcgaagccca tgttgggaga attccgggtt aacaaaagtc 360

atccgacatg ccaactatca aaatccgttc tcaanccgtt tgctggattc taacggttaa 420

atcgctcccg antttgcatn cacaatgaaa gttac 455

<210> 5020
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-C4

<400> 5020

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tcttggttta agaagattcg ttggngaatn agagagaaag aaagcatcca tttttctatc 120

attgcttgct tgctatggaa ttgggtaaat ctcgattcta cttatgttgc aattgcnttt 180

ctcctggtag attttccgat tattccttaa ctggnagtga ttnaccaaga agccatcccc 240

aacaatttca attggnatcc taaaccttcc tcctgaagat tcctcgtaat tcccnattcg 300

atgtttaana acttnaaatt cccctccaaa tcctgaaacg aatttctccc aaaaatctcn 360

gnttcctcaa aaaaaaacaa aaaaacaatg ttgtgtgcat cancctcg 408

<210> 5021
<211> 494
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-C6

<400> 5021

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cggacggaga aggtgatcgt ggtcaaaacc ctagaattat ggagagggac tcagattcta 120

tcaaagatcc gatctcagag ccttcatggt ttacccccan gggngcttnt ctttgtgttt 180

tgtgttgtca acttaatcaa ttatatagat cgaggagcta tagcaagtaa tggtatcaat 240

gggagtcgtg gttcttgcac ttcgagtggt acatgttttc tggcancgga atacagggag 300

atttcaactt gagcaatttt gaagatggag ttctgtcatc tgctttcatg gttgggcttc 360

ttgttgcctc tcctatattt gcttccttag ctaanagtgt taatccgttt aaacttancg 420

gagttgggtt gtcaatctgg actctcgctg tgattggctg cngtcnttcn tttgattttt 480

ggtccatcac aatc 494

<210> 5022
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-C8

<400> 5022

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cttatttta aatattcaca tacttcaatt ttcatggttt ttatttttt tatctaaaat 120

tatataatat ttgatagaaa aaaaangnng attcgtataa catcatcaga gataatcnca 180

aatacacttc ttcttcttct cgaaatctca gccgttcgtt tgtgtttcat tggctctcaa 240

tcgaagaaaa cttttagctt acaaaatctg ctttgagtag tattgatttt tcaattcata 300

tggaaaatcc tccattagaa tctgagatca aagaggatat gtctttgaag aatcatcctc 360

cagacnagga taangacaaa tacactatca tggaacaacc tagtantcca cgtcatcgga 420

aggttgttgc tagatggtta cctgatgaag cacagangcc aattatcaat gacgctcccg 480

t 481

<210> 5023
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-C9.

<400> 5023

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actgaccgag tcttcccagc ttccaaacca ccaaccgcca ctaatggagc tccaccagtt 120

ggttccatac cacctcctcc agctccggcg actgtaacca gcaacggaac aacaaacgga 180

atggctaatc agaaacctca agtctacatt ccagctaacc gtccggttta ccgtccacag 240

ccttacagtc gccgtcatca ccaccaatct cgaccaagct gccgacgaat ttgctgttgt 300

tgctgtttct ggtcgattct gataattctg atcttagctc tcatgactgc aatcgccgcc 360

aacgcgatgt acgtgattta acaacctcgt ccgccgtcgt tctccgtccg tcaataagaa 420

tcaancg 427

<210> 5024
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-D1

<400> 5024

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acgcagatgg aagtttagag cgttacaagg cacggttagt tgccaagggt tacacacagc 120

aggagggtgt tgactttgtt gacacttttt ccccaatggc aaagatgact attgtcaaaa 180

cattgttggt tgttgcagca gcaaagaaat ggagtttgca tcagttggat atatcgaatg 240

ccttttttata tggcgacctt gaagaagaaa tttatatgac tcttcctccg ggttacacaa 300

ctaaagaagg cgagactctt ccaacctaaa tgcagtctgt taagtttcca aaatcccccn 360

aanggttaaa acaagcctca agacanttgt ttcccgnaat ttaataacac ttaaagccaa 420

taagaatnca aa 432

<210> 5025
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-D11

<400> 5025

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ggcagcaatg gcggcggaag atgaagttgc aaaaattgcg tgagtttgta cgttcagaat 120

atgatcactc ctgtttacgc tcctgtcgct cccgagcttt atacgagggt ctgaaggtcg 180

ctgcaacctc cgatttgatg cttgcgtatc tggatttctt ccttggtggg gatgaaaaaa 240

ggacagacct tccacctcga cttcaccaaa ggtttccaat gcccatattg tttggtggtg 300

atggcagtta catggctcct ttctcacttc aaaatgacaa cattcttacc agtctgatga 360

gtcagcttgg ttcgcctact acttggtata anactggtgg ctggtgtaaa tgctcaatta 420

actcttgtnc ncntggcgtc tgagattaac attcaatccg gttctganaa tgggtt 476

<210> 5026
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-D2

<400> 5026

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ccaaagccta aagcgatctc tgcaaatctc tcgcgactct ctctttcaag atgcaaatct 120

tcgtgaaaac actcactggc aagactatca ctctcgaggt nggggagcnn tgacaccatc 180

gacaatgtta aggcaaagat tcaggacaag gaaggcattc ctccggatna gcaaagatta 240

atattcgccg gtaaacagct agaagatggn cgtaccttgg ccgattacaa cattcagaaa 300

gaatcaaccc ttcatttggt tntccgttta aaangtngna tngaaatcct tgtcaaagac 360

tntgaatggn aaaaccatta atttgggang ttnagaactc tgacactatt gacaacgtna 420

aaagcaaaga ttcaaggcaa ngnaaggatc cctncgggtt aagcaanana cttacttttg 480

ccggttagca acttttaaga cngga 505

<210> 5027
<211> 483

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-D5

<400> 5027

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ctgccggaaa tttccccgtc aacgaagacg gtagctttcg tcggaagaag tcgttcggac 120

aacaagggaa acggagaatg aatcctagga caagtttggc tcagcgtgaa gagatcataa 180

gaagaactgt ctatgtgtct gatattgacc aacaggtcac tgaggagcag cttgctggtt 240

tgtttatcgg ctttggacag gttgttgact gtcgtatatg tggtgatccc aactcagtac 300

ttangtttgc tttcatcgag ttcactgatg aagtgggtgc aaggactgct ctgaatttgt 360

ctgggacgat gcttggattc catcctgtga aagttatgcc gtctaagaca tctattgcan 420

cggttaancc aaccttcctg ccaagggact gaagattanc gtgagatgtg tgcaagaact 480

atc 483

<210> 5028
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-D9

<400> 5028

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gacaagtgcc gtgtaattcc tcgccctcgg ctactctttt ctcttcttgc ctctcgtctc 120

cgccgctgat tcagctgccg ccgacaaagg aatatggaag aaaaagatgt gtatacgcaa 180

gatggaactg ttgatattca caaaaatcct gcaaacaagg agaaaaccgg aaattggaaa 240

gcttgccgct tcattctcgg aaatgagtgc tgtgaaagat tggcctacta tggcatgggc 300

actaaccttg tgaattatct tgagagccgt ctgaatcaag gcaatgctac ggctgcaaat 360

aacgtcacga attggtctgg aacatgttat ataactcctt tgattggagc cnttaaaact 420

gatgcntacc ttgggacgat attggactaa tgcaactttt gtttcatcaa gtctcggtaa 480

gactct 486

<210> 5029
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-E4

<400> 5029

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gaacaaatat ctagaagcca tgagcaataa gttctctgta gggatgagat ttaagatgcg 120

ttttgaggga gaggattccc ctgaaagaag angggntggg ncggttattg gtgtgaaaga 180

ctgctcccct cactggaaag actcaaaatg gcgatgctta gaagttcatt gggatgagcc 240

tgcatcgatt tcaagaccca ataaggtttc accatgggaa attgaaccgt ttgtnaattc 300

agaaaacgtt cccaaatcag ttatgctgaa aaacaaaagg ncccgtcaag ttaatgaagt 360

atctgcactt gatgtnngca taacagcttn aaacctttgg ngctctgttt tgncgcaaac 420

ccatgagttt gcacaatcgt gnatcaactc acagtggngt tctcctcaac aatgttatcn 480

tgatgcaa 488

<210> 5030
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-E5

<400> 5030

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ctttcaaact ttctctcatc ttccttctta atattttcat cgtagccacc atcgcagccg 120

cagcggccgt taacgccggt accaaaggtt nggattctcg gccgtccaaa accaggcgtc 180

cctggccttt caagaagctc aacaaaccgg tggttttaat gatctcttgc gacggtttcc 240

ggtttggtta ccaatttaaa acggacacac caaacatcga ccttctcata tccggaggaa 300

ctgaggccaa acacggttta atcccgggtt ttccccacaa tgacattcca aaacaactac 360

tctatcgcaa acnggactcc naccgggtta acaacgggta taatcatgaa caaagtttaa 420

ccgattccgg gttacgggaa aaagngttca acaaanggnt aacaaccaaa attgggggnt 480

aaggtaaacc gctgttgg 498

<210> 5031
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-E7

<400> 5031

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tgcatgacgc tttatgtatt gtcaagagga cccttgagtc caacacggtg gttgcgggtg 120

gaggtgcagt tgaatcagca ttgtctgtgt anctggagca ccttgctaca accttgggct 180

ctcgcgaaca attggccatc gctgaatttg ctgatgcgct attgattata ccaaaggtgc 240

ttgcagtaaa cgctgctaag gatgcaaccg aattggtagc taaactaaga gcgtaccacc 300

acactgcaca aaccaaggct gataagaagc actattcaag catgggactt gacctcgtta 360

aacnggaaca tccgcaacaa ttttggaacc tggattgatn cgaaccaagc tatgaaccaa 420

anttgaaaat tancantttg caacaagaag ggaanccatt aacnaattcc aacnaanttg 480

acaacatgat ttaaaactgg tg 502

<210> 5032
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-C11

<400> 5032

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gaaaaaaaaa gtcttcttct ttttttacaa gtctgagaat tttctacaga aacaaaaatc 120

tgattgtttt tcccactttg catctgtttt gnggatgcca gctacggatt ttcaaggatc 180

atttggaagg tcgttgctaa gtttacggcg agaccaagtt gactcatcaa cagtcgtctc 240

cggaagtagt agccaccacg agccaagcac catggaggtt gagctagatt cgtttcaaag 300

acaagtcgct gagaaattca tcgatctcaa cgcttcttca aacgaccttc tctctctcga 360

atggatcgga aagcttcttg attctttcct ctgttgtcaa gaagagtttc gagctatcgt 420

attcaaccac cgatctcaga tttccaaatc ctccgatggg accgtttgat tcaaganta 479

<210> 5033
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-A1

<400> 5033

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cgtctccgcc gctgattcag ctgccgccga caaaggaata tggaagaaaa agatgtgtat 120

acgcaagatg gaactgttga tattcacaaa aatcctgcaa acaaggagaa aaccggaaat 180

tggaaagctt gccgcttcat tctcggaaat gagtgctgtg aaagattggc ctactatggc 240

atgggcacta accttgtgaa ttatcttgag agccgtctga atcaaggcaa tgctacggct 300

gcaaataacg tcacgaaatt ggtccgggaa caatgttata taactccctt tgaattggag 360

cccttaannc ctgaatgcct aaccttggnc caaaattngg ccaattgcaa ctttggtttc 420

aaccaaagtc ccccggnaan gacccttttg acaataacaa n 461

<210> 5034
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-A11

<400> 5034

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ttggagaaga gaaaagagaa gcgataaggc aattatgtgt ttggatcgat caccatagaa 120

gtcgttgtga atatcttgag gaggttttgt ctaagaccgt tgtggctcga ggccaaagaa 180

gagtgtcgca gcgaacttaa ggactcagtg ccatggtttt ggactctggt caatcaagaa 240

gctggtggag aggtattttt ggttggggac ttttggtgta cttgtgttcg attttgttgc 300

actttttatat gtttgttaac ttttgttgta ttttgtaagt caaaattttt ggtttattgt 360

gggcaaagtt ggtggtggtt tttatgggaa gtcagggaat aaaaggggct cacacaaatg 420

gagtttgata attttttttc cttgggcgtc cggattgtat aaaaacgaat taaat 475

<210> 5035
<211> 494
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-A3

<400> 5035

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cctncccggc ttcgcccccc catttcctng tgagataaag gcggagtctc tctccagtta 120

ttttgctcat ccatcgattc ttagagttca aaatggttga tcaagttcag caccccacta 180

ttgcgcagaa agctgccggg cagttcatgc gttcaagtgt ttccaaggac gttcaagtgg 240

gttaccagag gccttctatg tatcaaagac atgcaaccta cggaaactac tccaattctg 300

catttcaatt tcctccgaca tcccggatgt ttggcaacaa ctggcttctc cccgtgnttt 360

gtccaaaccc caagagaaaa aggggtcant aactttggcc cttgaanttc ngaatgggtg 420

gngtttccng cngccgtttc caaaaatgnt gctgntccca atggaantgt taagcctttg 480

gttcaaaacc aagn 494

<210> 5036
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-A5

<400> 5036

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aagatgaaga ctctcatgtc ttcatagaaa caagtgatat gtgcgctnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

ntgaaacttt gggagcatcc ggtaacgntt ggttcnggtt cacnaccttc cccaaagaat 360

tcgtttcccc aaaaangnct caactccaac taacnncatt caancacatt tntnagtttc 420

tcctccttct cc 432

<210> 5037
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-A6

<400> 5037

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nnnnnnnttt caccggtgcc gacgccgata ccgtcacttc ctgatgattt gcttgtaagt 180

atcttcgcac gagtctccag attgtattat ccgattctct ctcttgtctc caagagcttt 240

agatctctcc tccgttcacc ggagctttac gagacacggt cactattagg ccgaaccgag 300

agttgtctgt atttgtgttt acaggaggga aatcctgatn cgaancctct ctggttcact 360

ctctgcatga aacctgacnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

tcaagtggta atcttttgat c 441

<210> 5038
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-A8

<400> 5038

gaatctttag atcgaattca agaggttcca catgaaggac caatgtgtga tctcttatgg 60

tctgatccag atgaccgatg cggttgggga atatctcctc gtggtgcagg cnacactttc 120

ggacaagata tcgctactca gtttaaccac accaatggac tctctctgat ttcaagagca 180

catcaacttg tcatggaagg ttttaattgg tgccaagaaa agaacgttgt gactgtattt 240

agtgccccaa actattgcta ccgttgtggc aacatggctg cgattctaga gatcggtgag 300

aacatggacc aaaatttcct tcagtttgat ccaactccac gtcaagtcga acccgaaacc 360

actcgcaaga ctccagatta ttttttgtaa gtaccaaaag aactaaagct gcaattccac 420

acactagctc ttcgtctctt ttgcttc 447

<210> 5039
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-A9

<400> 5039

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ttctcctagc aatgatcggc gtttcatatg ccatggacat gtcaatcatc tcctacgacg 120

aaaaccacca catcaccacc gagaccagcc gtagcgactc ggaggttgag agaatctacg 180

aagcgtggat ggtggaacac gggaagaaga agatgaatca aaacggtctt ggtgcagaga 240

aagatcaaag attcgagatc tttaaagata atcttcgttt catcgatgaa cataacacca 300

aaaacctcag ttataaactt ggtttaaccc ggtttgctga tttaaccaat gaggagtacc 360

gatctaagtt acttggggct aaancgacca aagaaggttt gaaaaccaat gattcggtat 420

caagccntgt tggtga 436

<210> 5040
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-B11

<400> 5040

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tcagacagtt tgatatggtt aatgactgct cggaccatca tttcctttct tcggataaag 120

ggttggctca gtcccaggtc acaaagagtt gggtgaagaa agtccagcaa gaatggagca 180

atttggaggc aaatcttccg aacacgatat atgtgcgtgt gtgtgaagaa aggatggacc 240

ttctgcgtgc agccctggtt ggtgcccctg gaacgccata tcacgatggg cttttctttt 300

tcgacataat gcttccacct caatatcctc atgagccacc aatggtacat tatcattcag 360

gtgggatgcg actgaatccg aacctgtatg agtcaggaag aatttgcttg agtctgctga 420

atacatggag tggctctggc actgaantat ggaacgcagg gagctcctcc atccttcaac 480

ttc 483

<210> 5041
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-B12

<400> 5041

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atcttagttt ctccggcgag agattgcttt tcaggaatca tcatggtgag aaagagaaga 120

acggatgctc catctgaagg aggtgaaggc tctgggtctc gtgaagctgg tccagtctca 180

ggtggtggac gtggttcaca gcgaggtggt ttccagcagg gaggaggaca acaccaaggt 240

ggaaggggtt atactcctca acctcaacag ggaggtcgtg gtggtcgtgg atatgggcaa 300

ccaccacaac agcaacaaca gtatggagga ccacaagaag tacaaaggaa gaggaagaag 360

gaggactcct catcaaggga ggtcaagaag gttatgccgt tggcnttgga ggttggncct 420

tcttctggac aacgcaaaag acaatcaa 448

<210> 5042
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-B7

<400> 5042

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aggaacggcg tttaactatt tttgaggaca acctccgttt tatcactaac cggaacgctg 120

agaatctcag ttaccggctt ggnttgaatc ggtttgcgga tttatctctc catgaatacg 180

gagaaatttg ccatggggct gatccaagac ctcctaggaa ccacgtcttc atgactagca 240

gcaaccgata caagactagt gatggtgatg ttcttcctaa gtccgttgac tggagaaacg 300

aaggcgcagt gactgaagtc aaagatcaag gccttttgca ggagttgttg gggccttctc 360

cactgtggga acaatgggaa ggcttaacaa gaattgtgac tgggagaacc taataacttt 420

tgtcctganc aagaatttga ttaaattgtt acaanngaaa acaaatggtt nccggaggag 480

<210> 5043
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-B9

<400> 5043

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cgcagctgct ttgattaact cttcaggtcc agcttaagag ttttgtgaag atggtcttag 120

tgctatacga gacagcggcg gggtttgccc tctttaaagt taaagatgaa ggaaagatgg 180

ctaacgtcga ggatttgtgt aaagagttcg acactccaga ctcagcacga aagatggtta 240

agctaaaagc ttttgagaag tttgacaata catctgaagc tctcgaagct gtggctaaat 300

tgctggaggg agctccaagc aaaggtctgc gcaagttttt gaaagctaat tgtcaaggtg 360

aaaccttggc tgtggctgat tcaaagcttg ggaatgttat caagggagaa actgaaaatt 420

gattgcantc acaacaatgc tgttatggag cttcaactng ggtaaaaatc 470

<210> 5044
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-C1

<400> 5044

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aatgaggttt tccaagtctc tcatcctgat taccttatcg gctttggtca tttcnnttgc 120

cgaagctaat gatccaagtc cacttcaaga cttttgtgtg gccattggcg acctcaaaaa 180

tggtgttttt gtgaatggta agttttgcaa ggatccaaag caagcaaagg cagaagattt 240

cttttactca ggcctcaacc aagcaggaac cactaataat aaagtcaaat ccaacgtgac 300

aacagtcaat gtcgatnaag atccaagggt taaacacttg ggaaaaaccc ttggccgcat 360

agactaatgc gccaaaatgg caaaaacccg gctcaaaaaa aacctccgtg ncaatgaaga 420

ttccttggtc cctggttnaa ggggaacaat taaa 454

<210> 5045
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-C10

<400> 5045

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cttctctccc cgttgccgtc cgtccccacc gctgagtgat agatcgaaac agagaaacac 120

acacggcgaa gaagatttca ccatattttg tctaagtgga ttcngttgag agagagagat 180

ggctatgtct caggtggtga acacgtaccc gctttcgaac tacagcttcg gaactaagga 240

acccaagctg gaaaaggaca cctccgtcgc cgaccggctc gctcgtatga aaatcaacta 300

tatgaaagag ggcatgagga ctagcgttga agggattcta ctggtgcaag aacacaacca 360

tcctcatata cttctgctac aaattggtaa cacattctgc aaacttcaag tggacgcctg 420

aagcctggtg aaatgaactg atggtctgaa aagaaactga caattaactt ggagggaatt 480

cggtgct 487

<210> 5046
<211> 686
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-H8

<400> 5046

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ggggaaaaag actantccgc tccagaaaaa gaaattaaag tcaaggggcc ctccccgcat 120

tctctcccta aggaccaata aataaactga cgaagtttgg gccccagcat tcaaatactc 180

tcccgctctg ctcccgaaaa ttttttaag cagacttaat actacctaca ctctctctct 240

cactctcgta caagtcatgg agtgacgctg gtgcgtacta acggtccacg tagagttgcg 300

annnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntaacggaa 360

accgttagtc gtcggaccta cgtcttctgg tcatcgaccg cgctctcggc ccacatcgcg 420

gagatcgctt cgttgccgga agaagcaaat ttgctcgtat aagagttaag ttataagctt 480

aatccttacc actaacggac cgttccccaa taagcacata cgggcgacga tctacaacgt 540

tcccagtaac gtaaacgttt atccccgnta ggcgccgana ngacataccc cataactaag 600

aagacttcac catcnactag ncttaaaacg gagccanang gtcaagtcgg acacgnacga 660

tccnataacg gacactcggt cccgtt 686

<210> 5047
<211> 635
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-G3

<400> 5047

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tatnaagaaa gcttcttgtt atcttcttca catggataac agctctatcc atgtcgaaac 120

caatcttcgt ntcatccgat aacatgaatt tcacattcaa atccttnaca atccgtaacc 180

tcacattcct cggagattca catctccgaa acggtgtcgt tgggctcaca agagagctag 240

gtgttcccga tacaagctcc ggtacagtaa tctacaacaa tccgatccgt ttctacgatc 300

cggattcaaa caccacggcg tctttctcca ctcacttctc cttcaccgtt caaaacttaa 360

acccagatcc aacctccgnc ggtgacggac tcgctttctt cctctctcac gacaacgata 420

ctttaggaag tcccggtggt tacttaggtc tcgtcaattc ctctcagccg atgaagaatc 480

gattcggcgn tatcgaatcg atacgaaant ggatcctcan ttcaacgatc ccaatggnaa 540

tcacattggg ttagatggtt gataggttgg actcaatctc aacnttagat cctttggttt 600

tggnttaaaa tgganctcaa atctgggaaa tngat 635

<210> 5048
<211> 686
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-G5

<400> 5048

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ggataatccc gacggattcg tagccggaga agctgtagcc gaagtttaac cacacgagga 180

agtacccgtc actcctaaga agcctaatcc aaacgcctag gtcgctaacg caccgtcgga 240

caacgctagg agtaccgagt gcgtagccga gcccgtacct tgggctgaag aagacctcgc 300

ccggagttaa gctgtcaagg tgtaatctag ggaaggatca gctagcgacg taaccgagct 360

tcccacttgc gtcgacgacg ttatctaccc tccggaggct acatgcgctc tcgaagacat 420

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aaggccgaca gcgagtctac tcacgtacac gtaaagaccg actggccagg cgagaccgaa 540

gaacctacct cgacgttaaa tgccgtcaac tcataatacg gccggcgact gctcgcacga 600

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atttgnatat ccgcgaagcc gtatta 686

<210> 5049
<211> 684
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-G6

<400> 5049

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gtgcntgctc tcccgcttta ctacccctat tgtcctcttc ttaactatct acatcataga 120

ccttggggna aataataacg gccggactcc cggaactcga ctaaatctcc ctaacggtta 180

ttccaactga aaaatctgat actccactcg atgatcctga cttaattgtt gcagctattg 240

aattgccatt cttcttggca atcaacggaa ctggagtcga caaaggagga ggaggaggag 300

aaagagagac ggcctctggc aggaacacat atataatgct atctgtcgca atggaattgg 360

aggccaatga cgaacctatt ggagacaaag aagtccacac ggtcagcgcc tccgtctgcc 420

attggaaaat cccggccgaa tgaattaaaa attacccagg ccacttccac aatccggacc 480

ctgatcacgg cgtgtccggc tagccataat acccccctgac caacaactcc ggagacttgc 540

ccaccgaaag caatcacggc gcatatctaa gattccccga aaccggcgcg ccggaccggc 600

ccgtctgntc ccgggagacc ganagagacg accaccgggg ccatacctta acgnggnatc 660

gaagtaatcc tacggnaccc caac 684

<210> 5050
<211> 674
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-G7

<400> 5050

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gcctctgtcc tccttctcct tgatcctgaa ggccctgacg tcgaagatga tgacgcccta 180

gaagacctta tcgagtccta ttatctctct tgcttcttct cctcgatcta gctcgagcta 240

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ttctttatct agattgcgaa gttcctgctt cttactcttc ctgaccatcg ggacgaagac 360

gagcctgaag gaccgttgga ggatgagaaa ctcatggagc tcttggcccc ccttgacgat 420

gttcttctct tcgttgactt atagatgttg gactccgagc tcgtcctaga aatcttagac 480

atcgatacct tgaagaagac gtaactgcat atcgcggaga ctgcccgtgc tctcacaccg 540

acggccatgt cactaaccat cctatcggca aatgcgaaaa cgagaattct gtcccggtcc 600

gggtccctaa acccgggtcc aaagacatga accccgagaa gaatcctagc ccgtccggag 660

ccggcgaagg agaa 674

<210> 5051
<211> 690

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-G8

<400> 5051

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atctcttant gaaaaaacgg tccgcagatc tccccgggtc ctcagggccg tcngctactc 120

aaggactctt gccgtctaat gagggcccct ccttgcggcc ccgaaggacc cgaaacacgt 180

cgacctatac gaacgggcga agaccgatgg gaacaaagta attcccggca caatggacta 240

tgtgtaggat tacccaggag acgcggctca cgcggagcca ttcgacgcag gatacctggc 300

gctataaggg aagagccccg gagtagccga aagcgcgaaa gtaatcagtg acactaacct 360

cttagctctg ggcaaggcgg ccgaagctaa cgaggagtcg attgagcttt tcggaccggc 420

gaatctcatt tgcacgaata aggacggact acaaaagccg agtcgagcga cgtaggtgag 480

gtagagaagt cgacggacct agataagctc tcaagcctcg tgaagaagaa gatgttaagt 540

atcgagtccc cctcaccccc cttagtactt cctcttaatc cntattgtaa tatagacggc 600

ggccctctaa actgaggact aaaatgagac ctcttactcc cgcttccgga tcgaaaacct 660

tactctctgg ctcttccccc ctcccctacg 690

<210> 5052
<211> 709
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-H12

<400> 5052

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agtgataaag attttaatcc tgagtttttc caaagactag aaagaaggca atccgtggaa 120

gtagtagttc ctcgtagatg taaaaacaat gatgaggaag aatcaggact cgatgatctc 180

aatgccatgg gatcttcaaa tcgcctcaag aacacccaag cagatgataa acaggtaaaa 240

ggtaggtttg atgggaacgg atcacaagca aggacatctg gtgatgataa ggctggtgtt 300

gtaaacggaa aagagacacc tggacatcac gctcctgtct ccaatactga taaccaatct 360

gaaggatcct tcacaagtaa tagaggaaat tggtcagcca tccagaggca gttgttgcag 420

ctagagagac aacaaacaaa tcttatgaac atgctccaag agtttattgg tggctcacat 480

gacagtatgg tgacccttgg anggcanagt aaggggntta gaaaggattg ntgaagacat 540

ggcaagagat ctttcgatat catcangtcg tanggctnat ctcacagctg ggtttggcaa 600

atataatagt tttgcttact atccactgga agtttaatgg tcgaacttca agggaaaaga 660

ngcttacaaa cagattggag ctntgaaggg gaaaatgtgg aatcttgca 709

<210> 5053
<211> 651
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-H2

<400> 5053

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ctgcccggcc cctctaccct tgaaacacaa aaagacggtt aaagnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnac 180

tggcgccaat catggaatct ctggaaattc tttattattg atctaggcgg tcaatcccac 240

taagatataa atcctgaccg acagtgctaa gactcctgac gcgaactttg acacttcatg 300

cgttcctgtc ggaatcggca ctcttgctgc cgctattgcc ttcaatggcg acaccttggt 360

gccggtcaat ggaagataag tctgctggcg ggccctggcc aataccccgt tgccctactt 420

ctagatgaag accaagcaca ctctagctgg aaacgagacc tcgtctattg gagacaacaa 480

tacgactaac aactctccat tggtgacgag gaactccaat aatgtcccgg cctgcgtcgg 540

cgctagagac gccaaaggca taattggata tcccatccaa tactacagtc acgattcggt 600

tggcgtatta agtatggcag aactaaggtt gggccgggat aaaaggtnca c 651

<210> 5054
<211> 659
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-H3

<400> 5054

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ggncgtaatt ccagagaaat tttggtatct atgattcatg actgcgcgat tcatcttctc 120

gaattgaaac agagagtagt tgggtcggaa tagctttcaa cactgtagca tttgtagcat 180

tgtcttttgt aatgtattct ctgattctcc atggaagaag gttggtccaa tcgcagaaat 240

gcttgagttt gagtgtttca gtgcaaaatg catttgtttt gtccaattcc ttctcttctg 300

ctagagctgc tgatgtgagc attagagatg gtcgaaaagg gaagaacttt acagtctctt 360

acctcgttga ttcattgggt ttatctaaaa agctcgcttg aatccatctc aaggaaagtt 420

agctttgagg acaagggcaa tcctgattct gntctaaagt ctggttaaga agttaccggn 480

tcacagattc tcagatctct accatcantt ccngattatn ccgntattgc ntggaancag 540

atgcctaaga aaagccnttt ggtccccaag ccttcaaaaa tctgcaatct aaaangaacc 600

tttaaacctc ttgagaaccc cttganaatg ggttcttcna gtnccccaga aatcttaag 659

<210> 5055
<211> 693
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-H7

<400> 5055

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tggtaggtca tctattatga ggacctanac gctatantgt ggccagagga atcgccgggg 120

taccgtattc gagcactcnc ttattggcta gctactcgag aaaattgacg ctcccgggcc 180

tggcacatcc ccgtcagagt ctactatagg aacgagagtc tctgagcccg gtaagctcgc 240

cagttagaaa ggagtcacgt cagaacgggc gaggaagtca tataaggaaa cgaaagcaga 300

ggagtcagca gattgagaat cggggataat tcatgacaga acagaagccg gagagacgtc 360

ataagcggta tcgtctcgta tctagccctc cttagtctat agatttaaaa cgctcgaagc 420

agcctagacg tccgaaggag acggaccagt cgagagacgg gtcgtcctat acgattacct 480

ataccctcat tacgttaata cgctccatag gatcaccatt ctcatcgacg gtaataatta 540

aattaaatac tcggccggtc ttctaggacc cgaagacgaa gacgacnact aagtgccaga 600

ctacctgtac ggaatcaccg gcttaagcan caaacnccgg atatagaaag aattggcccc 660

acactttacg atcctaaccc cggcccgaga nga 693

<210> 5056
<211> 609
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-G10

<400> 5056

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ctntatgcaa gcaactaaat cggcgaaagc aaagctaagg cttcaaggct caccaaagtc 120

tgcggagcaa gatggaactg agaaagccac tgttcccaga cgtcactctc taccatctcc 180

aggtaatggt aggatcactt ctcactctcc aagaacaacg agactcgcaa actcaggtga 240

caaaaccggg aataagaagg agaaacctct tctgtcgtcc cgagaaggaa acgccaagac 300

aactccagca gagcggaaga ggtgattggt tccagcggaa agtgaagcct ttatcgttct 360

tgattctata gcagcgacaa taccaaacat gaagaatgca accatcttat ctatttaaaa 420

gctagagatt atgagtctgt gattgtgttt tgtgtgttta tgttggccaa gtgttatgtt 480

ggcggctaaa tttctacaat tgngantgtg tccgagcccg atnaagttca ttacaaggnt 540

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aaacntttt 609

<210> 5057
<211> 698
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-A6

<400> 5057

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tcgatatcga cgtcggattc acgctcttac ccgaatatgg cgaagcccnc gctccggatg 120

acggcggcga ggcggactcc gactccggaa atcatgaaag gccctcagac actaaaccaa 180

taagagataa caatactatc atcgggaaaa cccactagta cgccaccgtc aaagagagga 240

aaggagacca cccgggaaag atcgcctagg ccgccttcta cgctatcgac gtaacctaag 300

accggactga gagagccgtg gccaccttcg ccgacggaga agaggacttc gtcgacgccc 360

gtgccaccga accaggcgga ataacaggcg acaccgaact tgtgttcccc actgaggtgt 420

ccggctaacc tctccattgc gcaggtttag ggaaccctcg ctcggcttac gctattctgc 480

gttcgcgtcc aacgccgncg gcgaatagaa aatcaaattt gatatagtac ancgctaagg 540

ggtcatnagg accgggtccg attttggaca ctccatccgc aggaatttta aagttttccg 600

nagacnacgg ggaaaggaaa aatcagtcta nccccgnttc gcnttgtccg agcacactcc 660

tatcctctcc acganggctt tnattacccc gggtgcac 698

<210> 5058
<211> 670
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-A7

<400> 5058

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tgctggcccc tcgcctcacc ttaggctctg gtggtgacct ttattgaaaa ttcttaagcg 180

atggcccttc taagtcgttc gtgctgctca ccttggtgga tagttgaaaa ccagcagtga 240

acctcatcct tccctactta actctagttg ccaatgctct cgtctaagtc ctttctattg 300

tcgacccctt tgtttcccta gaaatcacat cgaaagaggg aagaaacaat ggaaaagaga 360

aagtagagaa tactgcgcgg tatgagagcc tgacacgtag acgtgataga taataatcct 420

cctaataaaa gggccgcgct gcccggacta tcggctctag cggcctaggg aaaagtatcg 480

ccgtccgcgt atcaagcaaa gtaccggccg aaagagtaat ccatccatat atctgatggt 540

gataacgctt gcnatggntc caattgcgat tctatcccta aagtagagta ttggattgaa 600

ataccagaag aaccggcgag gngtcaancg gccgtcgtnc tggactaccg gacagtagcc 660

cgacctcttg 670

<210> 5059
<211> 671
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-A9

<400> 5059

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ggcacagctc ctattaactt gacggatagg cttcaccagg ttctccgttg ggctactggc 120

tcggtggaga tctttttctc ccgtaacaac gctcttctcg caagctcgaa aatgaaaata 180

ctccagagaa ttgcctactt aaacgtcggt atctacccgt tcacatcgat cttcctcatc 240

gtatactgtt tcctaccagc gctctccctc ttctctggtc agttcatcgt ccagacgctc 300

aacgtcactt tcctagtcta ccttctcatc atctccatca ctctctgctt actggccctc 360

ctcgagatca aatggtcagg aatctcactc gaggaatggt ggagaaacga acagttttgg 420

ctcattggag gaacaagtgc tcatctcgca gctgtgcttc aaggtttgct caaagttgta 480

gcaggagtcg aaatctcttc acgctcacga gtaaatccgg aggagatgat atagacgacg 540

agtttgcgga tttgtacatg gtgaaatgga cttcacttat gatcccttcg attaccatca 600

ttatggngaa tctgatancg aatgcggttg gattcaacag gacgatttac aagtgtgggt 660

cctcntggag t 671

<210> 5060
<211> 663
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-B1

<400> 5060

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ttgtattntg atgagaagtc tgttgatgca agtcaaggcc cgatctcaac aactgnatca 120

gttattanag ggctcacgtc atttgcagct tcagaatcca caggattgaa ccttncaggt 180

gataagatag ntggtctggc caaattcttt ctgggtgttg gaattcctgg tgatgccaag 240

gacttcttca accaaataga tgcactagct tgtttggaag acatcaagtt ttctgttcca 300

ctcatcttgn ctcttccatc cactgtcatt tcattgacaa agaaagagcc tctgaaggtt 360

aaagttagca ctgtactggg ttccgaaggc accagctctt agtgtgaagc ttacacaagc 420

tctaagttct aaagtcantg gattcatctg naattaataa ccaggagctt aaagtttgac 480

gctgacagtg caacgtactt cctggactcc tttcccaaga actttgacat tggaaaatat 540

acttttgtat ttaagattgn gctggatgaa tcagcacatg agaaaatntn cntaactgaa 600

gctcaaacca aatgcctata gctgccacan gagctattan cattggaaat gcacaaattg 660

ctg 663

<210> 5061
<211> 660
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-B11

<400> 5061

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tgggaagaag gttccgatca tggcgtcggt gtcgtcgtcg gatcaaggac ctaagacnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

natgttgttg tatagaggtt ttaagaaggc gaagaaggag agaggttgta cagctaagga 300

gcgtattagt aaaatgcctc cgtgcactgc tgggaaaagg agttccatat accggggagt 360

caccagacat agatggacag gtcgttatga agctcacctt tgggataaga gtacctggaa 420

ccaaaaccag aacaagaagg gaaaacaagt ttatctagga gcatatgatg atgaagaggc 480

tgctgctaga gcttacgacc ttgctgcctt aaaatattgg ggtcctggga cacttataaa 540

tttttccgtg actgattatc canggattta gaagaaatgc caaatctctc anggaagaat 600

ccttgctctt tactagaaaa gcacggttct ctagggatag cgaaattcgt ggactnaagc 660

<210> 5062
<211> 623
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-B3

<400> 5062

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ttcagatctc atgatttgaa ctattccgac gtttcggtgt tggaagcaac taagtgacaa 120

atggaatccg aaggagaaac cgcgggaaag ccgatgaaga acattgttcc gcagacttgc 180

cagatctgta gtgacaatgt tggcaagact gttgatggag atcgttttgt ggcttgtgat 240

atttgttcat tcccagtttg tcggccttgc tacgagtatg agaggaaaga tgggaatcaa 300

tcttgtcctc agtgcaaaac cagatacaag aggctcaaag gtagtcctgc tattcctggt 360

gataaagacg aggatggctt agctgatgaa ggtactgttg agttcaacta ccctcagaag 420

gagaaaattt cagagcggat gcttggttgg catcttactc gtgggaaggg agaggaaatg 480

ggggaacccc agtatgataa agaggtctnt cacaatcatc ttcctcgtct nacgagcaga 540

cnagatcttt angagagttt tctgctggct acctgaacgc ctttntggat cttctactat 600

cgcttgggga aaacgccttn cta 623

<210> 5063
<211> 659
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-B4

<400> 5063

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taacggccta cgaccacgtc atantaatca acggnatnct tangtgccgt ctggtgccnt 120

taataataaa tatagcggac gctctcctgg cgctagactc ccccgaacct acacgtctgg 180

gcttctctgc aaataagacc ggcactatct tctaaagagc cggttagctc accgataaac 240

ggccatctca tggtctataa tcccgcagat cgccctagtc caacgagtcc aagtccataa 300

ccttctagaa agtcaggtca cattatcatc atacatttgc ccccacccgg cgtgaagact 360

agaccgtccc gtacaacctt aagcccaaag acggagacga cgcattcttc ccagcgaccg 420

gacccagttg tcttctaagg acgcggtaag gatcatatcc gcgcccgtat ccgaccactc 480

ccctaagata ataaanaaga agctagttga tgacacttgc agatgacccc catccgatcg 540

nagaangtta agtcgaaccg agaaaaaaga acntaggaaa cgtatccnca gagcactgcg 600

ggaaacgtan ggaagctacg aatcggaaat cccncggcgg aaatatccca agtttcggc 659

<210> 5064
<211> 693
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-B5

<400> 5064

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gactcacgtt ccgcttctct tcctgcagtt acctccggtc tcgcggtccc tcctatagtt 120

taaccaactc ttgccaatat taataacaac gacgaccttc caccaatcat gagttagacc 180

cgttacggag tctatgatta agatctacgt taagtctctc cgcttgaacc tatgatgccg 240

ctgtctctaa agtctaattg ttccgattca ccgtatgcgc ccccgaagaa tctggcgcgg 300

tggtccgaga gtatgacgat tacggcgagt gaggtcagga cttgtctgaa tggcgccaga 360

gataaggtag gccccgtcga tcgtgaggag acgacggatg cactaaagga ctggacgacg 420

agcctgacgg aggaatcctg tggaggaaat cacaactccg agctacatct aaatgcctac 480

atccggtcga gtagcgcgtc cataaatcat acgatacgcc cagaaagcac cagcgacgct 540

cntgctaatc tcaagtaaac agctaagtta taatcctgag gatccggccc tcagggtaag 600

gancggtctc agttactccc gntcntgntc cggtcggtaa aagatgactc caaaaacgga 660

taccccttaac tgnccccttgc tgcggtccat cgn 693

<210> 5065
<211> 632
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-B6

<400> 5065

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gnagttcnga ataagtccat tcaattgagt gtcactataa ggaagaagta ggagtagctg 180

caactcctgt cccttaatta ctccctctag agaaagaccc tcctgacttg gataacaaac 240

tccttcccgg agaaactaag ccgaattgcg cctagccctt ccgcacgagg aaaactggca 300

aaggcgacgc agtcatcgcc aatgaagtcc cttctaagaa ctccgaagtc actaccgact 360

taagaattct accctaagtc ctcgcggaaa cggtcgcgag gagcagaaaa tagacagcgc 420

ctataggata ccttctagga ggcgtaatcg taactccagt aatagcccgg cacccggaga 480

aacatcctac atgtaactta aacgcccatt ccgattctgc cgcgcgatac cggatcctcc 540

cgggcggcga tctcactcct anctattatc cggganaaaa aaaacgggat ttggctcccg 600

ngnatcccgg tccaaagaac tgacaccgnt tc 632

<210> 5066
<211> 694
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-A3

<400> 5066

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cccacgcgtc cgctttcccg aagcggatct cttcgtctgt gtgatcggag gatctgcaag 120

agttccttac ccntacaaac tcagagagag actgagagat attcgttacg caatttatta 180

tggcttctgt aagcaaatcg aatcatctcg aagaagatga tgatgctgaa gaagaggtgc 240

aacatttcga tgatttcact ctagcttctt cctgggaaag gttcatctca gacattgaag 300

caacttgtcg tcaatggtta gctgatggtc ccaaaaacct ggtggaaaag ggtgctgttg 360

cagtggagga ttcaaagaat ctgtttacgg tcaaacaccg aacttaagaa tgttgcaaag 420

agctattgta tggagttcta ctttcaaatt gataataatg gtagccaaca agctggaatt 480

ggtaattgga acagtaattc acatgatctc cagctttgct ttggggtgaa ggattttctg 540

ttgattgctc cacaaagtgc cagtggggtg cttcttgata caccagagtc tagcaagctt 600

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gtgcatgacc cttnacgcaa agcatatatt ggaa 694

<210> 5067
<211> 612
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-E1-G3

<400> 5067

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gntcaanaaa gcttcttgtt atcttcttca catggataac agctctatcc atgtcnaaac 120

caatcttcgt atcatccgat aacatgaatt tcacattcaa atccttnaca atccgtaacc 180

tcacattccn cggagattca catctccgaa acggtgtcgt tgggctcaca aganagctag 240

gtgttcccga tacaagctcc ggtacagtaa tctacaacaa tccgatccgt ttctacnatc 300

cggattcaaa caccacgggg tctttctcca ctcacttctc cttcancgtt canaacttan 360

agccagatnc aacctccgcc ggtgacngac tcgctttcct cctctctcan gacancnata 420

ctttaggaag tcncggtggt tacttaggct cgtcaattct ctaagccgat tgaagaatcg 480

attcgtcgca tcgaattcga tacgnanttg gttcccattt aacgatccaa nnggtaatca 540

attggtttan anttgnaatt tgaccattct nacttanntc tttgcttntc taaattgatc 600

caatcnggaa at 612

<210> 5068
<211> 630
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-E1-G5

<400> 5068

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attacatcaa caggctggac aactttgatg gacctgcagt tggagaagtc gcagttgaag 180

cccaattata tgaggaagca tttgctatct tcaagaagtt caacttaaat gttcaggctg 240

tcaatgtatt gctggataat gtcaggagca ttgagcgtgc agttgagttt gcattccggg 300

tcgaagaaga ttctgtttgg anccaagtcg ctaaggcnca actcatggaa ggactagtca 360

gtgatgcaat tgagtccttt atccgtgctg atgatgccac tcatttcttg gaggtcatac 420

gtgtctctga agatactgat gtctangatg acttggtcaa ataccttctg atggttagac 480

anaaggtgaa ggaacccaag gttgatantg agctcatcta tgcatatgca aatattgatc 540

ggttangtga gattgaanan ttcagtctga tnccaaacgt tgctaatcna caacatgttg 600

gtgatcatcc gtatgacgaa gctctctatn 630

<210> 5069
<211> 691
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-E1-G8

<400> 5069

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ggcttgtana ctcttttggg cttctaaggt tgggtctcat ctaaggatct ccgntgctca 120

acgagggttt tcttccgtgg ttttgaanga tttgaaatat gctgattcac atgaatgggt 180

gaanattgac gggaataaag caacctttgg tataacggat cacgcgcatg accatttagg 240

agatgtggtc tatgtggant tacctgatgt atgacattcg gtgtcacaag ggaagagttt 300

tggagcagtt gaaagtgtga aancaactag cgatatcaat tctccantct cgggtaaggt 360

ggttgaagtc aatgatgagc tgaccgantc ccctggattg gtgaactcta gcccgtatga 420

acaaggatgg atcataaaag ttganctgag tgatgcangc gangcagaga anctgatgga 480

ttcagacaag tactccaagt tctgccaana ataanacgcc aagcactgaa ctttttctat 540

tttttccaac atccttctcc aancttccaa ncncaacaca anattgtttg ttttcccaaa 600

tccaaggatt aaaaaccaag atttcctcca tcctttgtcc ccttggactg aaaattccca 660

acctctccgt tcctcccttt ttttcctttc a 691

<210> 5070
<211> 664
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-E1-H12

<400> 5070

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tcaggactcg atgatctcaa tgccatggga tcttcaaatc gcctcaagaa cacccaagca 180

gatgataaac aggtaaaagg tangtttgat gggaacggat cacaagcaat gacatctggt 240

gatgataagg ctggtgttgt aaacggaaaa gagacacctg gacatcacgc tcctgtctcc 300

aatactgata accaatctga aggatccttc acaagtaata gaggaaattg gtcagccatc 360

cagangcagt tgttgcagct aganagacaa caaacaaatc ttatgaacat gctccaagan 420

ttnattgggt ggctcacatg acagtatggt gaccttggag ggcaaagtaa ggggtttaag 480

aaaggattgt tgaagacatg gcaagagatc tttcgatatc atcaggtcgt agggctaatc 540

tcacagctgg gtttggcaaa tataatagtt ttgctaacta tcnaactgga aagtataatg 600

gtcaactcca agggaaagan gctcacaanc agatggacct atgangggga aaattttgga 660

attc 664

<210> 5071
<211> 698
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-E1-H4

<400> 5071

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gtgggatcag cttcaagctt aagagagctt cgagtagcga aagcgacgat ttcttctcca 120

tcgtgagagc aaatctccag agccgttttc tcttcttctt cttcctcctc gcgccgtctc 180

tgaaactcca tcatcgtatc aatcaaattg cttcctcctc caanttgaan aacaatggaa 240

ttggattcgg anaacaantt gttgaagacg ggtttggtta tagtggcgac acttgttata 300

gccaaactca tcttctcttt cttcacttct gattctaaga anaagcgtct tcctcctact 360

cttaaagctt ggcctcnatt ggttggaagt cttatcaaat tcttgaaang acctattatt 420

atgcttagga gaggaatacc ctaagcttgg aagtgtgttt actgttaatc ttgttcacaa 480

aaagattact tttcgtattg gtcctgaagt ctctgctcat tttttcaaaa gcttctgaat 540

ctgatcttag tcagcaggaa ntgtatcaag ttcaatgtcc ctaanttttg gtccctggaa 600

nttgttttcg angtttgaan taatccggtt cgtcanggaa caatttcggt tcntcactga 660

aggcacttan agttaacnag ttgaaagggg taagttga 698

<210> 5072
<211> 636
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-E1-H5

<400> 5072

ctctctctct ctctttcctc catctctctg tgttcttctt acagacaccg agnggggcgg 60

atcctgatct gtcgnctcct ttgatccacc atcaatcctc cgatcaacct gaagttgtta 120

tctctatcgc cgacgacgac gacgacgagt caggactcaa tcttcttcca gccgttgttg 180

accctcgtgt ttcacgaggt tttgagtttg accatcttaa tccttatggc tttctcagcg 240

agtcagagcc tccggttctc ggtccgacga cggtggatcc attccggaac aatacacctg 300

gagttagcgg attgtacgaa gcgattaagc tcgtgatttg tcttccgatt gctctgatta 360

gacttgttct ctttgctgct agcttagctg ttggttactt ggctacaaaa ttggcacttg 420

ctggctggaa agataaagag aaccctatgc ctctttggag atgcagaatc atgtggatta 480

ctcggatctg taccaaatgt atcctcntct cttttggcta tcaatggata anaaggaaag 540

ggaaacctgc tcgganaaaa gattgctccc gaatggtgta tcaaatcang tttcctaaaa 600

ttgaaccaat cctccnactt ccaangaatt atcaac 636

<210> 5073
<211> 642
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-A1

<400> 5073

ttgggctgnt tatgtgcttg taagggtagc ccccctccga caccttccct aatcccttcg 60

acacgcgatc ttcgtggcaa agaaaactct aaaaagagaa aagacccatc cgagcgccaa 120

cgtcggcatc ggaatagaag cctctcgtaa aggacgtagc tactaatcaa aggagaaacc 180

gtggagcgta gggaagccga ggcccgtaca cgaagtagac gccccgaagc ggctgaatat 240

cgatcccagt cccctccaca tggttcttct aagcaacaca gccggcggat ccccttccta 300

actcgtgttc gcctatgacg ccgactagag ggatacaccc ctccctcact ccccccttagg 360

aaagtagtaa aaaatcaagg tacctaagtg ggaggcagca cccgccgccg atacaagcaa 420

aagcacgatc ggaaaattct ctgaggacgc aaaaaacgtg acactcatag tctcactcaa 480

gtccgacttc ggagacctcc ctaacaccac tatccctagt aacgacatcg tctcacccct 540

gatactaacg gagctagcta tcctcgacgt cgccgaaaga ggtaccgagc ggacgaataa 600

gaatcccgct gctgtaaacg gctaaatacg tctttccttt cc 642

<210> 5074
<211> 670
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-A10

<400> 5074

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tgtctgagtg ggatcacgag gactccactc ggttacttgt tatcattcaa ggattgaggg 120

atcaatatgt ggcctaccaa agaaggcgtg tgggtcaagt tgatgatgat cgagttaagt 180

ttgagattag caccgtctta actcgcaagg gaattgaaat gcaaatggct tcaggagttg 240

acaagccaga ggaagtcaag tttgcagtac ctcttgtgat ggatatgaac ataaacaaaa 300

tggtggttgg ctgcccttgg aagcatcagc agaagattta tcttcaggta gtatacccga 360

ttcttcggaa atatgaagca gcaccgtcag cacctcgttt gaaattagta tcatattatg 420

atttaaaatc gctattctct gntgaggatg ttaaactttc tccatggatg gacgggatgt 480

gcttggctga atatcttccc atcttgaaga aacacttgag agacagatcc atgaanctgg 540

tgctgcaatt gatttaaagg aggagtttta ttgaggcatt aaagtcttaa tctgggaaga 600

cctcttgaac cgatcctacc ttttgncgta nggntacatt ccttaatgcc ttggacaatt 660

tactttcatg 670

<210> 5075
<211> 667
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-A11

<400> 5075

cccattggct tgnaaccttt gggctanccn cgcntccgca atggaggaag ctcaccagct 60

ggagtcgaga tccgatgacc taagtcaacg gagaagctac tggagatgga ggaagcagga 120

ttttttcccg gaattctctt ttcagagctt ctctacctac aaatcagctc tctccgccac 180

ttgtccacgc ctcgccgatc gtcttctctc tcgctcttcc gatgcgtacg agctcgatgc 240

agcccgccgc gaaagcgaga accctatgcg tcgttgtctc acttggtggg acttgctctg 300

gcttagcttt ggttctgttg ttggttcggg tgtgttcgtg atcacgggtc angaggctcg 360

agttggagct ggtcctgctg ttgttctctc ctacgctatc tctggtgtct ctgcattgct 420

ctcagttctc tgttatgctg agtttggagt tgagattcct gtcgctggag gntctttctc 480

ttatcttang gttgaattgg gggattttat tgcctttatt gctgctggga atattcttct 540

tgaggctatg gttgggngct gctggattan ggaggncatg ggcttcgtat ctactngntt 600

gggcnagaan gattctgata ttttcggata aaagtcnatt nctttgntta agggttngaa 660

cttttgg 667

<210> 5076
<211> 633
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-E1-C8

<400> 5076

gggaaagagg aggagaaagc ggcgcagagc gtggcggtga ccgtggtgac ttcgggcggg 60

gnttcagcgg tgnacntggn ggttnccgtg gccgtnatcg tggtccaaga tgccgtggaa 120

tacgtggatg ccgtgcctcg gaagaaacga aatgggttcc agtgaccaaa ctatgtcntc 180

tagtggctga caataanata tcgaanctag agcagatcta tcttcattct ctcccantan 240

acgagtacca aatcatacat catcttgttg gtcctacgtt ganangacga cgttatgaan 300

atcatgcctg ttcanaaaca naccatagct ggtcaaatga ctagattcaa tgcctttgtt 360

gttgttggtg atggaaatgg tcatgttggt ttgggtntca agtgttctaa ggaatttgct 420

antgccatta nacgagctat taatcctgct aagctatcan tggttcccgt gangataggt 480

tattgnggga ataagattgg gaanccacac actgtgcctt gtaaaggtac tggggaaatg 540

ttggtctgtt actgttagaa tggtcctgcc ccgataggtc tggtattgtt ccgcaanggt 600

cctaaagaag gtctcaatcc ccggnaatga tta 633

<210> 5077
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-G4

<400> 5077

aagccttngg aancnnaaca agaaactnnc tngggcngcn gnaaaacatg gtggagtagt 60

atacattctg gaacttttat tgcctttgca aaaagaaatt cccttgcagc aaagagctgc 120

agcggcttct ttgttgggga agctcgtcgc acaaccaatg catgggccta gagttgctat 180

cacacttgtg agattccttc ctgacggtct tgtatctata attcgtgatg gacctgggga 240

ggctgttgtc catgcacttg agcggaccac tgagactcca gaacttgtgt ggacaccagc 300

aatggcagca tctttatccg cacagattgc aaccatggca tcagatattt atcgtgaaca 360

acagaagggt tctgttattg aatgggatgt accagaacaa tcantggtca acaagaaatg 420

anagacaa 428

<210> 5078
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-G7

<400> 5078

caaaatcttc cctcaaactc agatccgatt cttctaattc tttgtccccc cagagattct 60

tcttctttct ccaagtaaaa gaaaacaact ttctttctct tttcttgcga aagtcctcaa 120

ctttcaccac taaatcagct tccttcaatc actgtgtttg ctttggaccc agtttctgat 180

ttagcgacta gggttttgat tggaaccgta ttaagtatat gagaatcggg ttttactggt 240

gaatcggatt atcatcggaa ttcggaaaaa gatggatcgg aatcaaaaga tggatcacgt 300

tatcggcggg gaagtttaag ttgggtagga agcttggaag tggatcattc ggtgaacttt 360

atttagggat caatattcaa actggagaag aagtcgcagt taagctggaa cctgtgaaga 420

cgangcatcc tcaactgcag tat 443

<210> 5079
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-H10

<400> 5079

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gcggacgcgt gggccgctta taaactttct ctcttctgaa aacagatctc tctactttgc 120

ttcttcactc gacttgtatc tatcatccat ggcttccgag aatcntttcc gaagcatatt 180

gaaggcgtta gagaancctg atggtggtga attcggtaac tactacagct tacctgcttt 240

gaangatccc aggatnnata aactacctta ttccattagg atagttcttg aatctgccat 300

acgtaactgt gatgagttcc aagttaagan canagatgtt gagaagattc ttgattggga 360

gaatacttct cccaagcagg ttgagattcc gttcaancct gctcgggttc ttcttcagga 420

ctttacnggn gttccngcng ttgttgatct tgcttgcatg aaaaatgcca tgagaaaatc 480

ccggtgggaa tccaanaa 498

<210> 5080
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-H12

<400> 5080

gaangacgcg tgggttcgtc atcatcagat ggagattctc gtggaccttt agaagccaat 60

ggtgttctta aggggaaaga tcagaaacct cttggatcta ttcacgttcc ttctcctaat 120

ttcgatatgg tttactctgt gttatctcaa cgaggctatt accctgactc acctgataag 180

gagaatcaag acacttactg catcaaaaca gagcttcaag gtaacccgaa tgttcatttc 240

ttcggtgtct ttgatggtca cggtgtgttg ggtacgcant gttcgaattt tgttaaggag 300

aaggttgtgg aaatgttgtc cgaaagaacc aactccgcct naagattcgg agaaagctta 360

aaagtccgcc tttttgaagg ttaatgaana attacaccat antgaaatcn acnattccat 420

gaatggnact actggcaata cggtcctgtt gttg 454

<210> 5081
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-H2

<400> 5081

cgnccgagaa aaagaggttt gctgtttctg tacaacggta cagggacatg ggttccgcag 60

agaaaatgaa ccccttttgca gagcaagaag cttgggagga ccatcagatt gaaaacgcag 120

cattaaaatt tggtgcaaag aataaggagg tctcagacaa ttacgagttt gtatttgaag 180

accaaataga cttcataaag gcatctgtgt tggctggtga taattatgaa gatgaaatgc 240

atgctaaacc atctcaagat tctgctggga aatcggcttt tcatatgctt caggaggata 300

gaaaagctct gccaatttat acatatcgtg atcaacttct taatgctgtg aaagatcatc 360

aggttcttat cattgtgggg gaacgggttc tggcaagact acacagatac cccaatatct 420

tcacgaagct ggttacacaa agcttggaaa nggt 454

<210> 5082
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-H5

<400> 5082

taaangaggt ttcttcttan agaaatgaat ttctcttatt cttccttgtc aacttggaca 60

accctaatga cattgggttg tcttctgctt cattcatcca tttccagtgc tcagctaacc 120

ccanctttct atgacaatac atgtcnaagc gtctttanca tcgtacggga naccatagta 180

aacgagctaa gatcggatcc tcgtatcgct gcaagcatcn ttcgtcttca cttccacgac 240

tgtttcgtca atggctgtga tgcatcnatc ctgttagaca acacaacatc ctttcgaaca 300

gagaaagatg cngctccaaa cncanactcg gntcgangat ttncagtgat cgatagaatg 360

aaagcatcag tagagacagc atgtccaang actgtttcat gcgcagatat acttaccatc 420

gcagctcaan aagctg 436

<210> 5083
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-H8

<400> 5083

cccctngtcg tcaagaaacc gggtcgnccc acgcgtccgg naatctccgt tgaagctttc 60

cacaaatctc aaatttgttt ggagactctc aaatgtatcc ttctctcgac gatgatttcg 120

tctctgattt gttttgcttc gatcaaagac tgatcaagag gataccttte cagattttgt 180

gtcatatggt gtgaatttgc agcaggagcc agatgaagtc tttagtattg gagcttctca 240

attggatttg tcctcgtata atggagtttt gtcgctagag ccagaacagg tggggcaaca 300

agattgnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnga cgattgctcc agaaagcggg caaggactgg 420

gatcgtgtan cagaggagga ggaactaaag cgtgtcntga aaaggttgaa ggagggagaa 480

gctaa 485

<210> 5084
<211> 686
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-E1-A1

<400> 5084

aanatggggg gacggaaggg gaannnnctt accgggtccg aaaattcccg gggtcgaccc 60

acgcgtccgc aagggcagtt ttttcttgat attcctttca actttcctga gtatgtgact 120

cctgcggngg nagaaaatct caaaangaga aaagatttac ttgagtgtta atgctggtac 180

tggaacagaa gttctctgca aaggatgcag tcatcaacta aaggagaaat tgcggagtgc 240

agggaagttg aggtttgcat atgaagcaga tgttttgaag tggtcgaaca ctgactttag 300

cttttcttat acggcctcct caagtaatat agttggtgga cttttccttc aatctgcgcc 360

tgttcacgat gttgatcaga gggacatatt ttctttctat ctttttccag gaaagcagca 420

gaaaactaag gcattcaagc gggaggtagt atttgttgtt gacataagta aaagtatgac 480

tggnaaacct ctcnaggatg taaaaaatgc gatatctaca gctctatcta agcttgatnc 540

tggagattct ttcaatatta tcactttcag caatgatact gctctatttt cgacatcaat 600

ggagtcagtc acttctgatg ctgttgaaag angcattgag tggatgaaca agaactttgt 660

cgtcgcagat ggtacaaaca tgctcc 686

<210> 5085
<211> 612
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-E1-A9

<400> 5085

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ggnacagctc ctattaactt gacggatagg cttcaccagg ttctccgttg ggctactggc 120

tcggtggana tctttttctc ccgtaacaac gctcttctcg caagctcgaa aatgaaaata 180

ctccagagaa ttgcctactt aaacgtcngt atctacccgt tcacatcgat cttcctcatc 240

gtatactgtt tcctaccagc gctctccctc ttctctggtc agttcatcgt ccagacgctc 300

aacgtcactt tcctagtcta ccttctcatc atctccatca ctctctgctt actggccctc 360

ctcgagatca aatggtcagg aatctcactc naggaatggt ggataaacga ncagttttgg 420

ctcattggag gaacaagtgc tcatctcgca nctgtgcttc aaggtttgct caaagttgta 480

ncangagtcc aaatctcctt cangctcacg aataaatccg ganganatga tatataccac 540

aatttccgga tttgtacatg ggngaaaatg ggantttaac tttatgattc ctcccgaatt 600

tacaaaccan tt 612

<210> 5086
<211> 664
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-E1-B11

<400> 5086

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tgggaagaag gttccgatca tggngtcggt gtcgtcgtcn gatcaaggac ctaagacaga 180

agcaggatgt ancggcggag gaggaggaga gagctcggag acagtggcgg ngagtgatca 240

agatgttgtt gtatagaggt tttaagaagg cgaagnanga tagaggttgt anagctaagg 300

agcgtattag taanatgcct ccgtgcactg ctgggaaaag gagttccata taccggggag 360

tcaccagaca tagatggaca ggtcgttatg aagctcacct ttgggataag agtacctgga 420

ancaaaacca gancaagaat ggaaancaag ttnatctatg agcatatgan gatnaanang 480

ctgctgctag aacttacaac cttgctgcct taaaatattg gggtcctggg acacttataa 540

attttccggn gactgattaa ancaanggat tnanaagaaa tgcanatctc tnaagggaat 600

aaagaccttg catctttacn ttgaagaaca tnggtttccc aagggaataa cccaantgtc 660

gtga 664

<210> 5087
<211> 666
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-E1-B3

<400> 5087

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ttggntccag attgagagag attcagagag tcacatcacc acactccatc ntcagatctc 120

atgatttgaa ctattccgac gtttcggtgt tggnagcaac taagtgacaa atggaatccg 180

agggagaaac cgcgggaaag ccgatgaaga acattgttcc gcagacntgc cagatctgta 240

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tcccagtttg tcngccttgc tacgantatg agaggaaaga tgggaatcaa tcttgtcctc 360

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aggatggctt agctgatgaa tgnactgttg agttcancta ccctcagaag gagaaaattt 480

cagagcggat gcttggttgg catcctactc gtgggaaggg agangaaatg ggggaacccc 540

agtatgataa agaggtctct cacaatcatc ttcctcgtct cacgancaga caanatacgt 600

cangganant tttctgccgc ctcancttga acnccgcnct gtanccttct actagcgcta 660

ngggaa 666

<210> 5088
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-G11

<400> 5088

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atgtcggcac aggtgttcag attttcggta tgactcttgt gacaatgatc tttgcattgc 180

tgggcttctt atctccatcc aacagaggag ggctcacgac tgccatggtt ctcttatggg 240

tattcatggg catatttgct ggttactcat cttctcgtct tcacaaaatg ttcaaaaggg 300

aatgagtgga aaaagaatca cctttaagac tgcattcatg tttcccggta tactcctcgc 360

gatctcctcc gtcccaacan actcatatgg gggaaaacga ttatccggga gcaattccct 420

ttantanaat gtttgccccn ggccgtc 447

<210> 5089
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-F3

<400> 5089

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cgtctaaaac agttttctgc aatgaataaa ttaaagaaga tggctttaaa ggtgatagct 120

gagagcctct cagaagaaga gattgcgggt ttaagagcaa tgtttgaggc aatggatact 180

gataacagcg gtgcaatcac ttttgatgaa ctcaaagctg gcttgagaag atatggatca 240

accttgaaag acaccgagat ccgagatctt atggaagcgg ctgatgtgga caacagcggt 300

acaatagatt acagcgagtt tattgcagcg acgattcatc tgaataaact agagagagaa 360

gaacatcctg tccccgcatt tcaatacntt gacaaagatg gnaatggtta catcanccat 420

tgatgaaccg caa 433

<210> 5090
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-F4

<400> 5090

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tcactgatct attcactcac tcaaatcgcc gccggagcta aatcaatcaa caatgacgtc 120

gacctacacg agattcgata ccgtatttct cttttctagg ttcgccggcg ctaagtattc 180

gccgttattg ccgtctccgt cgtttacttt atctacttcc ggcattcata tcagaaccaa 240

accgaattct cgttttcact cgattatagc atcctcctca tcttcatctg tagtcgccgg 300

aactgatagc attgagatta aatcgttgcc gacgaagcct attgaangga caaaagactg 360

ggaactaacg gactccggga agaagggtga aaagttttca tgggaagata antaatttag 420

ccaaactggg attcagg 437

<210> 5091
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-F5

<400> 5091

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ctgnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnngct ttggtcaaac 180

ctgaatccga gacacgaaag ggcctttact tcttgtcgaa tcttgaccag aacatcgccg 240

tgattgttcg tacaatctac tgtttcaaat ccgaggagag agggaacgag gaagcagtcc 300

aagtgatcaa gaaagctctg agtcaagttc ttgttcatta ctatcctctc gctggacgcc 360

tcaccatcag tcctgaangt aaactcacag ttgactgtac cgaagaanga ttgtgtttgt 420

ggaa 424

<210> 5092
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-F7

<400> 5092

gtaccaatcn gnaattcccn ggtcnaccca cgcgtccgaa ttgtgccagc agacggtgta 60

gcgccggtct ggaacagcga tgttaggttc tactgtgtca aagattcttc tggaaatcca 120

actgcttatt tctactttga tccctactct cgcccttcag aaaagagaga cggcgcttgg 180

atggatgaag ttttttctcg tagccgagtc atggcccaga agggttcctc cgttagactc 240

cctgttgctc aaatggtctg caaccaaact ccacctgttg gtgacaagcc aagccttatg 300

acattccgtg aggtagagac tgtgttccat gaatttggcc atgctcttca gcatatgctt 360

accaaagagg atgaggggct agtggctggt atccgggaat atcgaatggg atgcattgaa 420

ttaccgtcac agtttatgga gaactggtgc taccacangg atacctta 468

<210> 5093
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-F8

<400> 5093

tctgcccgta cggtaccaat cnnnaattng cgggtcgacc cacgcgtccg nttcaagatt 60

agcctctaga ctaataataa tcttctcaat aatctccaca tctttcttca ccgttgaatc 120

gattcgacta ttccctgatt cattcgacga tgcatcttca gatttaatgg aagctccagc 180

atatcaaaac ggtcttgatt gctctgtttt agccaaaaac agactcttgt tagcttgtga 240

tccatcagct gttcatatag ctatgactct agatccagct tacttgcgtg gcacggtatc 300

tgcagtacat tccatcctca aacacacttc ttgccctgaa aacatcttct tccacttcat 360

tgcttcgggt acaagtcagg gttccctcgc caagacccta tcctctgttt ttccttcctt 420

gagtttcaaa gtctatanct ttgaagaaac aaggtcaaga tctaatctct tcttc 475

<210> 5094
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-F9

<400> 5094

tacngcctcc acaattccca aggtccaccc acgcgtccga aattaaaagc ttcaggtgca 60

gttttagtag caaagcttgt tacgggttct atggcttatg atgatatctg gttcggggga 120

cggactagga atccatggaa tatcgaggaa ttctctaccg ggtcatcagc tggacccgct 180

gcatccacat cggctggtat ggttcctttt gctataggct cggagacagc aggctcaatg 240

acataccctg cagcgcggtg tggcataaca gcattgcgtc cgacatttgg gagcgttggt 300

agaaccggag tgatgagcat atccgagagc ctggataagc tgggaacctt cctntaaaaa 360

acaaccggat nccccgttaa tcctgaccca tccaanggaa agattcccaa tgatntccca 420

accaaaaaaa ttnccttga anattccctc cccgttgata tcacaaaact cacaattggg 480

tntacaaaa 489

<210> 5095
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-G1

<400> 5095

catacgggtc cagcacgcgt ccgaaaatat ctgaatgaac agggtttcaa tattgtcggc 60

tacgggtgca ctacatgcat cgggaattct ggggaaatta atgaatcagt gggagctgct 120

attaccgaaa atgacattgt ggcggctgct gtgctatccg gtaacaggaa ctttgagggg 180

cgtgttcatc cactaacaag agccaattac cttgcatctc ctccgttggt ggttgcctat 240

gctcttgctg gcacggttaa cattgacttt gaaacggagc ctattggcaa angaaagaat 300

ggcaaggacg tcttcttaag agatatctgg ccaaccacgg naagaaaatt gctgaagttg 360

ttcaatccaa gtgttttgcc ctgacatgtt tccgaanaaa cttcgaantc aatcaaccaa 420

agggtaaacc ccaagtttgg aataaacctg tccggttcct ganaaaa 467

<210> 5096
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-G10

<400> 5096

tccaaggtcn acccaggcgt ccgantcatc tncttcttct tcaaacaaaa aatgggtttc 60

ttaaagttat ctccaatgat ccttctccta gcaatgatcg gcgtttcata tgccatggac 120

atgtcaatca tctcctacga cgaaaaccac cacatcacca ccgagaccag ccgtagcgac 180

tcggaggttg agagaatcta cgaagcgtgg atggtggaac acgggaagaa gaagatgaat 240

caaaacggtc ttggtgcaga gaaagatcaa agattcgaga tctttaaaga taatcttcgt 300

ttcatcgatg aacataacac caaaaacctc agttataaac ttggtttaaa ccggtttgct 360

gaattaanca atgaaggagt acgattcaag ttacctgggg gcaaaacgaa caaagaaggg 420

gtttggaaac cantgatngg tancaagncc ntgttggtga agcgcttcct gaatccgttg 480

a 481

<210> 5097
<211> 512
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-G11

<400> 5097

ggactccccc gcacgtacgc ccacaatcca agaccactca gaccgattan gctggccana 60

catgttttcc gttgtcggag gtaaggccag gtattcgtgc cgttcggctc cacgatcgtg 120

ccggagaggt ctacaagcac gtgagactgc tcatgcggtt tgtcttggag cctcgttagc 180

gcttcgtgga taatgttcat tcatcactcg tgtcaatgtc ggtacacgtt ttttatgttt 240

gtaatgttaa ggtgtcggta tacattagtc agtcatacta agccatacga taataagaga 300

tgnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnntgtt tgaacaaaaa aaaaaaaaaa gggnngncgc cccaaangat 420

ncaaaaccta agtnagcntt caatgccaag tcaaaactcc tccaanaatg gtcaactaaa 480

ttcaaatcaa ctgggccgtc ctttttaaaa cc 512

<210> 5098
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-G12

<400> 5098

cagaatccac agtccaccca ggcgtccgan ctctttntcc gtaggaaagg ggaagcaaat 60

aaattatcga agcccactgg tttcggagct gatcggtctc tatttctctc ttcatacata 120

tctcaagcag ataaagttga tcggatacta gaatgggagg aggatttaga gttttgcatt 180

tggtgaggcc attcttggct tttctgcctg aggttcagag tgctgatagg aaggttccat 240

tcagagagaa ggttatctac actgtcatct ctctcttcat ctttcttgtc tgcagtcagc 300

ttcctcttta tggaatccat tccaccaccg gtgcggattc attctattgg atgcgtgtca 360

ttcctgcgtc caaaccgtgg aactgtcatg ganctcggta atactcctaa tgttacatcc 420

ggacttgtga tgcaactcct ggctggttcc aaagaataat ganggtgaca acaatgttcg 480

tgag 484

<210> 5099
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-G2

<400> 5099

ttgnttgaac aatttatctg ggtttttgat tctcggatct actccaagac ggttttcgaa 60

attaacaagc ttttcaggaa atggatcatt catcaaatag atttggcaat aatggagtgg 120

aatcgatttt accgaattac aagcttggta aaactcttgg aattgggtct tttgggaagg 180

tgaaaatagc agagcatgtt gtcacagggc ataaggttgc tatcaaaatc cttaatcgtc 240

gtaagatcaa gaacatggag atggaagaga aagtgaggag ggagattaag attctacggt 300

tgtttatgca tcctcatatt attcggcagt atgaggtaat agagaccacg agtgacattt 360

atgttgtgat ggagtatgtc aagtctggag aactcctttg atataatgtt gagaaaggca 420

gattacaa 428

<210> 5100
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-G5

<400> 5100

gaaagcatga aaaatttcct agtttctaaa acacttttt gggataaatt tatctctaag 60

ctgcttgatt ttctttaata tgcaggagtt tgtcagactg acggtgtaac ggaacgggaa 120

aagccaaacg tgagacaaac gctggtcacg gcttatgata cattgctagc cccacaagtc 180

aaaacttgta tcgaagtgtc acattttcct caagacaacg cgcgtttcgt gaaaacgcga 240

gtaaacggcg gtggaataac aacatgtatt gcaacatggt ttagccaact ctgcattctc 300

ctccacagac ttttaaaaga acggcgtcac gaatcctttg acttacttcg cattttccaa 360

gtcgtcgcgg cttcgattct ttgtgggcnc atgttggtgg gactcctgaa ttatccgaag 420

acgtacatga acggacta 438

<210> 5101
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-G6

<400> 5101

tcnacccacg catccgaaaa agagacctac gagccttggg tcgaactagc agagaggttt 60

cctgaagcta agggtatttt ggttaattca tacacagctc tcgagccaaa cggttttaaa 120

tatttcgatc gttgtccgga taactaccca accatttacc caatcgggcc gatattatgc 180

tccaacgacc gtccgaattt ggactcatcg gaacgagatc ggatcataac ttggctagat 240

gaccaacccg agtcatcggt cgtgttcctc tgtttcggga gcttgaagaa tctcagcgct 300

actcagatca acgagatagc tcaagcctta gagatcgttg actgcaaatt catctgggtc 360

gtttcgaacc aacccgaagg agtacgcgag cccttacgag gctctaccac acgggttcat 420

ggaccgggtc atggatcaag gcatt 445

<210> 5102
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-F12

<400> 5102

cngaattcca aggtccaccc acgcgtccga aaaatccntg aagaaaggat cactggctgc 60

cgaatcaaaa catgtgaagt cagttgtgaa aattgaagat tctactgatg atgataatga 120

agaattcggc tatgtgagta gcagtgactc ggatatggtt acaccgcttt cgcggatgca 180

tatgaagggc aagaaaagag atttaattgt tgacactgat gaagagaaga cctcaaagaa 240

gaaagcaaag aagcacaaga agtctctccc gaattcagat atcaaatata agcaaacaag 300

tgcactactt gatgaactgg gaancatcaa agccgtctga cagtatggtt gttgataatg 360

agttgaaatt tgacgaacaa gggttaaact gtnaggaaaa aattcatcac ttccaagcca 420

ataaagcgtg ttcctaagat naagccagag aaantgaaga aanggaatcc gtgggc 476

<210> 5103
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-D10

<400> 5103

caattccana gtccacccag gcgtccgana tgaatatctc ccacctctgg atatgtctcg 60

acagcctccc actcaagagt tagttgcaaa ggatttgcat gcaaatgact ggcgattcan 120

acatatattc cggggtcaac cacggnggca tttgctacag agtgggtgga gtgtgtttgt 180

tagctccaaa aggctagttg caggcgatgc gtttatattt ctaaggggcg agaatggaga 240

attaagagtt ggtgtaaggc gtgcgatgcg acaacaagga aacgtgccgt cttctgttat 300

atctagccat agcatgcatc ttggagtact ggccaccgca tggcatgcca tttcacaagg 360

gacaatgttt anaatcaaca caanccaaga acaagccaac ctaatttaat gntccgttcc 420

attaattata tgagtccgtt aaaaataact nctccaattg naagagaatc caaattaga 479

<210> 5104
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-D11

<400> 5104

acgcgtncga aactgattaa tcaatgttct cttaaagatt aagagagcca aaacgaagca 60

aattaatctg ccttcaatgg cttcttcagc agcagccatc gtctccggtt ctccatttcg 120

ttcttcacca ttaatccata accatcatgc ttctcgttat gctcctggat ccatctccgt 180

cgtatctctc ccccgtcaag tttcccgccg tggcctctcc gttaaatcgg ggttgatcga 240

gccagacgga ggaaaactca tgaacctcgt agtcgaagaa tcacggcggc gcntgatgaa 300

acacgaggcg gaaacggttc cggcaaggnt taagctgaac cgtgtgggtt caaaaatggg 360

tacatgtgct taacnaaggc tgggcaantc cncccaaagg tttcatgaaa cattaangtt 420

cctccaaaaa cttaatttta acncgttc 448

<210> 5105
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-D12

<400> 5105

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnngata atgggagcct atgaaacaga anaaccaact aaanatgcgg cggctctaga 180

gacacagtcg ccggaagatt tcgatcaacc atctccgctt cgtaaaaatc atctccgtcg 240

cttccatcgc cgccggtgta cagttcgggt gggccttaca gctctctctt cttactccgt 300

acgtttcaan tcctcggaat ccctcacaaa tggtcatctc ncatttgggc nctggtggtc 360

caattcccng gcatgantgg ttaaaccaaa ccgtcnggtt tcc 403

<210> 5106
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-D2

<400> 5106

ctagccagag agatgacgag caagattcta gttatcggag ctacaggtct catcggaaaa 60

gtcctcgtag aggaaagcgc caagtctggc cacgccactt tcgctctggt tagagaagcc 120

tctctctccg atcccgttaa ggcccaactc gttgagagat tcaaagatct cggcgttacc 180

atactctacg gaagtttaag tgataaagag agcttagtga aggcgattaa acaagtcgat 240

gtcgtgatat cagctgttgg tcggtttcaa actgaaattc ttaatcaaac caatatcatc 300

gatgccatca aagaatctgg aaatgttaag agattcttac cgtcggaatt ggtaatgacg 360

tggatcgtac ggtagcattg agccaacgct atcaagagtt catcactaaa agctcagata 420

aggngtgg 428

<210> 5107
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-D6

<400> 5107

gtaccaatct tnaattcgcn ggtcnaccca cgcntccgng acgtggtagg aggattggtc 60

gggggatact acgacggagg aagcaacgtc aagtttcatt ttccgatggc attctcaatg 120

acaatgctaa gttggagtct cattgagtat agccacaaat acaaagccat cgatgagtat 180

gatcacatga gagatgttct caaatggggc actgattatc ttcttctcac tttcaacaat 240

tctgctactc gccttgatca tatctacact caggttggtg ggggactaag agactcagaa 300

tcaccagatg atatctactg ttggcaaaaa ccagaagaca tgtcctacga ccgtcccgtc 360

ctctcttcca cttcggccgc tgaccttggc gcagaagttt ctgcagcctt agctgctgct 420

tcaatcgtat tcactgacaa accggactac gccaaaaagc tcaaaaa 467

<210> 5108
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-D7

<400> 5108

cggacgcgtg ggactgcgtc agctcaagca aatagctcag gaggttactc agactaatag 60

tagtgttaat gggtggggac ggcgtcctgc tgccttaaga gctctcagcc agaggctaag 120

cagaggcttc aatgaagctg taaatggttt cactgatgaa ggatggtcag tgataggaga 180

tagcatggat gatgtcacaa tcactgtaaa ctcttctcca gacaagctaa tgggtctaaa 240

tcttacattt gccaatggct ttgctcctgt aagcaatgtt gttttatgcn caaaacatca 300

atgcttttac aagaatgttc ctccggcgat cctgcttcgg ttctgaagga gcatangtca 360

gaatgggctg acaacaacat tgatcgtatc taacaacaac aatttaaan 409

<210> 5109
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-D8

<400> 5109

gntgtttcga aagattttgg tttgtttgtt acgtatccgc ttcgtcctga agacagtctc 60

agttctattg cgagatcttc cggtgtatcg gcggatattc tgcagagata taatcccggt 120

gttaatttta actccgggaa tggaatcgtt tatgtgcctg gaagagatcc aaatggtgca 180

tttccaccat tcaaatcaag taaacaagat ggtgttggtg ctggagttat tgctggtata 240

gttataggag tgattgtggc tttgttgttg atcttgttta tcgtatatta tgcttaccgg 300

aagaataagt cgaagggtga ttcgttttct tcttctattc cgttgtctac taaggctgat 360

catgcttctt ctactantct ccaaagtgga ggtttgggtg gtgccggagt gtctcctggc 420

attgctg 427

<210> 5110
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-D9

<400> 5110

gtacgtacgg ncctgaatcc aagnccaccc angcgtccga acaaaaccaa aaaaaaaaaa 60

gagaagaaga attagcttac gtgttcatca catctgcatt acgcgcaaac gaaacagatt 120

caaattctcc ggcgaagttt tcttattcat caatcaatct ctggattcat caatcatgcc 180

agagatcgag attgccgccg gcagcggcga caacaacgac gccttattcg gtaaatatga 240

gctcggaaag cttctcggat gcggcgcatt cgccaaagtc ttccacgcac gtgatcgtcg 300

taccggccaa agcgtcgccg tgaaaatcct caacaagaaa aaactcctca caaatccagc 360

tcctagccaa caacatcaaa cgcgaagatt tcaatcatga agaagaatta ctcatccaaa 420

catcgtcaaa gctccacgaa gttatggnga caaaatcaaa agattctcct cccaatggga 480

tttgttaaaa ggaggagaa 499

<210> 5111
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-E12

<400> 5111

gcaacgtagc cctcattnat tccanagtcc acccacgcgt ccganctctc tgctcccaaa 60

ttcagaaaaa aaggaacgat ttttatttcc ggtgaatgag aattttctct cgaatttgat 120

cgatcacata tttcatctgt gtgttttcat tttgaggatg ccagcaacgg aatatcaaag 180

atcattcggg aggtcttttc tgaatttacg gcgagacacg gcggtgaact cggttgagtc 240

aacgacggtt acccccgagt tgactcagat ggaagcagag cttgtttcgt ttcagagaaa 300

agttgctgag aggtttatcg atctcaatgc gtctagttgt gaagatctac tgtctctcga 360

atgggttggg aaacntcctg aatcgtttcc aatcntgtca aagaaaaatt tccggttcaa 420

tantncanna atcanccgtt caatgaatta 450

<210> 5112
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-E2

<400> 5112

accgccactt aaggccgtct cctccgcaat ctccgtaacc aaaaccaccg gcatcgcctg 60

atggggagaa ctaaggagca ggcaacatta actcggtatc caccctgtcc taggaatcct 120

gctaaattca atgatataaa caaagcactc caggaaaaag gatatggtaa ggctctgaaa 180

agaaaacctt ggacgggtgt gacatgccct gtctgtcttg aggttcctca caactcggtc 240

gtcctccttt gttcatctta ccacaaagga tgccgtccgt acatgtgtgc cacgggaaac 300

cgtttctcaa attgtctaga gcagtacaaa aaggcatatg ccaaggatga gaaaagtgac 360

aaancgccag agctattgtg cccgcnttgt aagggtcaag tgaaaaggtg gancgttgtg 420

ga 422

<210> 5113
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-E3

<400> 5113

ctgntcgccc cggtcaccac nnaacgggtc cngccacgcg tccgaattnt aaaaccctaa 60

atccccaaat cgggaactga gattccgatt cgaagatgtc gtcgtcttct ccgagtggaa 120

gcggtagtga tttgactgag agaagaggga tncctgccgc caaattcatc caagatgtgg 180

agacttatct ctctcagtct ggtctcgatt ctaactctgc tctcgccttt caccaaagaa 240

aggcttcagc aatataaagt tgttgagatg aaacttcttg ctcaacaaag ggatnttcag 300

gctaaaatcc caaatattga aaagtgttta aaaggttgtt gccaacttgg aaaccaaaga 360

aaggtactgg gtaaggccct cctaaactga attttgangg tgtcctgaan gaataatatt 420

cacggggcct gcanttgaag acacagactc cantgtgttt tgtgggtttg gaanctaatg 480

tcaagc 486

<210> 5114
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-E5

<400> 5114

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ttttcacggc gagaaatgtc gtcggagctt ggctttgctt tacttaccac cttcacggtg 120

ctcttgtcgt atttaagctt ttctaatggg ttactgcaac ctcgtaggat ttctcatgga 180

ttgtccaaaa gtagcaagta cttgacgagg gatgagctct ggttcactca aaccttagat 240

cactactctc catctgatca tcgcaaattc agacaggaga tactatgaat atcttgacca 300